Water Resources Data
Illinois
Water Year 1984

ORIGINAL

Volume 2. Illinois River Basin

Volume 1.
Illinois except
Illinois River
Basin

U.S. GEOLOGICAL SURVEY WATER DATA REPORT IL-84-2
Prepared in cooperation with the State of Illinois
and with other agencies

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CALENDAR FOR WATER YEAR 1984

1983

OCTOBER

S	M	T	W	T	F	S
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1984

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SEPTEMBER

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23	24	25	26	27	28	29
30						

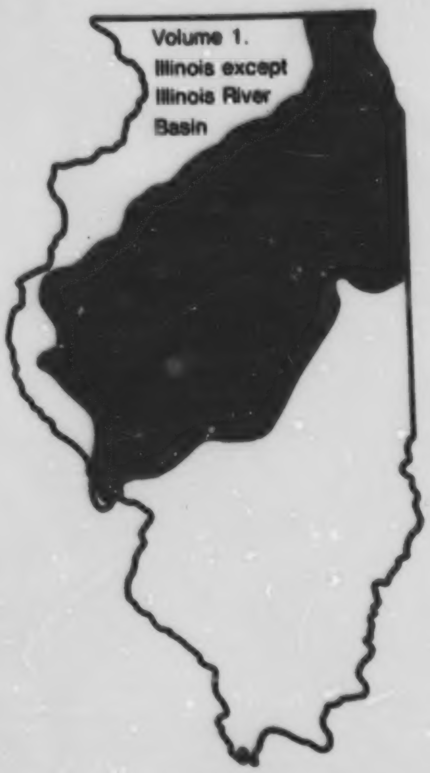
U.S. DEPARTMENT OF THE INTERIOR
March 3 1849

Water Resources Data Illinois

Water Year 1984

Volume 2. Illinois River Basin

by K.K. Fitzgerald, P.D. Hayes, T.E. Richards, and R.L. Stahl


Volume 1.
Illinois except
Illinois River
Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IL-84-2
Prepared in cooperation with the State of Illinois
and with other agencies

I

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UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Illinois write to:

District Chief, Water Resources Division
U.S. Geological Survey
Champaign County Bank Plaza
102 East Main Street, 4th Floor
Urbana, Illinois 61801

1985

PREFACE

This volume of the annual hydrologic data report of Illinois is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Illinois are contained in two volumes:

Volume 1. Illinois except Illinois River Basin

Volume 2. Illinois River Basin

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

De Kalb Office	Mt. Vernon Office	Urbana Office
W. L. Borchardt	J. D. Dwyer	A. L. Bewsher
G. G. Fisk	J. C. Maurer	M. L. Harris
J. K. LaTour	D. L. Olson	A. W. Nyberg
T. L. Wicker		A. D. Robl
		J. S. Sterling

Mary Garrelts updated and typed the text of the report and deserves special recognition for assembling data from the above offices, organizing tables into two volumes, preparing tables of contents and indexes, and preparing and editing camera copy.

This report was prepared in cooperation with the State of Illinois and with other agencies under the general supervision of L. G. Toler, District Chief, Illinois.

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Water resources data for the 1984 water year for Illinois consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 74 gaging stations; stage only at 2 gaging stations; stage only at 3 lake stations; water quality at 94 gaging stations; and water levels at 3 observation wells. Also included are data for 15 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data together with the data in Volume 1 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in Illinois.

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CONTENTS

Page

Preface III
List of gaging stations, in downstream order, for which records are published VI
Introduction. 1
Cooperation 1
Summary of hydrologic conditions. 6
  Streamflow. 6
  Water quality 6
Definition of terms 8
Downstream order and station number 12
Numbering system for wells and miscellaneous sites. 12
Special networks and programs 13
Explanation of stage and water-discharge records. 13
  Collection and computation of data. 13
  Accuracy of field data and computed results 15
  Other data available. 15
Explanation of water-quality records. 16
  Collection and examination of data. 16
  Water analysis. 16
  Water temperature 16
  Sediment. 17
Explanation of ground-water level records 17
  Collection of the data. 17
Access to WATSTORE data 17
Publications on techniques of water-resources investigations. 19
Gaging-station records. 21
Discharge at partial-record stations and miscellaneous sites. 376
  Crest-stage partial-record stations 376
  Miscellaneous sites 379
Ground-water levels 380
Index 381

ILLUSTRATIONS

Figure 1. Map showing location of active surface-water gaging stations 2
2. Map showing location of water-quality stations and observation wells 4
3. Discharge during 1984 water year compared with median discharge for period 1951-80 for three representative gaging stations 7
4. System for numbering wells and miscellaneous sites 12

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letter after station name designates type of data: (d) discharge, (c) chemical, (m) microbiological, (s) sediment, (e) elevation, stage, or contents]

Page

UPPER MISSISSIPPI RIVER BASIN
Mississippi River:

ILLINOIS RIVER BASIN 21
Kankakee River (head of Illinois River) at Momence (dcm). 25
Iroquois River at Iroquois (dcm). 28
Sugar Creek at Milford (dcm). 31
Iroquois River near Chebanse (dcm). 34
Kankakee River near Wilmington (dcm). 39
Des Plaines River at Russell (dcm). 43
Des Plaines River near Gurnee (dcm) 46
Buffalo Creek near Wheeling (d) 47
Des Plaines River near Des Plaines (dcm). 51
McDonald Creek near Mount Prospect (d). 52
Weller Creek at Des Plaines (d) 53
Des Plaines River near Schiller Park (cm) 56
Salt Creek at Rolling Meadows (d) 57
Salt Creek at Western Springs (dcm) 61
Addison Creek at Bellwood (dcm) 65
Des Plaines River at Riverside (d). 66
Flag Creek near Willow Springs (d). 67
Des Plaines River at Lockport (cm). . . . .
Chicago Sanitary and Ship Canal: 70
North Branch Chicago River at Deerfield (dcm) 74
Skokie River at Lake Forest (d) 75
Skokie River near Highland Park (d) 76
West Fork of North Branch Chicago River at Northbrook (d) 77
North Branch Chicago River at Niles (dcm) 81
Little Calumet River (head of Calumet Sag Channel) at Munster, Ind. (cm). 85
Thorn Creek at Glenwood (d) 86
Deer Creek near Chicago Heights (d) 87
Butterfield Creek at Flossmoor (d).
North Creek: 88
Lansing ditch near Lansing (d). 89
Thorn Creek at Thornton (dcm) 93
Little Calumet River at South Holland (d) 94
Midlothian Creek at Oak Forest (d).
Calumet Sag Channel: 95
Tinley Creek near Palos Park (d). 96
Calumet Sag Channel at Sag Bridge (cm). 99
Chicago Sanitary and Ship Canal at Lockport (cm).
Illinois and Michigan Canal: 102
Long Run near Lemont (d). 103
Des Plaines River at Route 53 at Joliet (cm). 106
Hickory Creek at Joliet (dcm) 110
West Branch Du Page River (head of Du Page River) near West Chicago (dcm) 114
West Branch Du Page River near Warrenville (dcm). 118
East Branch Du Page River at Route 34 bridge at Lisle (cm). 121
Du Page River near Naperville (cm). 124
Du Page River at Shorewood (dcm). 128
Aux Sable Creek near Morris (cm). 131
Mazon River near Coal City (dcm). 135
Illinois River at Marseilles (dcms) 140
Fox River at Wilmot, Wis. (d) 141
Fox River near Channel Lake (cm). 144
Channel Lake near Antioch (e) 145
Fox Lake near Lake Villa (e). 146
Nippersink Lake at Fox Lake (e) 147
Nippersink Creek near Spring Grove (dcm). 151
Fox River at Johnsburg (e). 152
Fox River near McHenry (e). 153
Fox River near Burtons Bridge (cm). 156
Fox River at Algonquin (dcm). 160
Poplar Creek at Elgin (dcm) 163
Fox River at South Elgin (cm) 166
Ferson Creek near St. Charles (d) 167
Fox River at Montgomery (cm). 170
Blackberry Creek near Yorkville (dcm) 174
Somonauk Creek at Sheridan (cm) 177
Fox River at Dayton (dcm) 181
Vermilion River at McDowell (cm). 184
Vermilion River at Pontiac (d). 185
Vermilion River near Leonore (dcm). 188
Little Vermilion River at La Salle (cm) . . . .

Page

UPPER MISSISSIPPI RIVER BASIN--Continued

Mississippi River--Continued

ILLINOIS RIVER BASIN--Continued

- Illinois River at Hennepin (cm) . . . 190
  - Big Bureau Creek at Princeton (dcm) . . . 192
    - West Bureau Creek at Wyanet (cm) . . . 195
- Illinois River at Henry (ds) . . . 197
- Illinois River at Lacon (cm) . . . 201
- Illinois River at Water Company at Peoria (cm) . . . 203
  - Farm Creek at Farmdale (d) . . . 206
    - Fondulac Creek near East Peoria (d) . . . 207
  - Farm Creek at Camp Street Bridge at East Peoria (cm) . . . 208
  - Kickapoo Creek at Bartonville (cm) . . . 211
- Illinois River at Pekin (cm) . . . 214
  - Mackinaw River near Congerville (d) . . . 217
  - Mackinaw River below Congerville (cms) . . . 218
  - Mackinaw River below Green Valley (cm) . . . 224
- Illinois River at Kingston Mines (d) . . . 227
  - Spoon River near Wyoming (cm) . . . 228
    - Indian Creek near Wyoming (dcm) . . . 231
  - Spoon River near Dahinda (cm) . . . 235
  - Spoon River at London Mills (dcm) . . . 238
  - Spoon River at Seville (dcm) . . . 243
    - Big Creek at St. David (dc) . . . 247
      - Evelyn Branch near Bryant (dc) . . . 249
    - Big Creek near Bryant (dcms) . . . 251
      - Slug Run near Bryant (dcm) . . . 259
- Illinois River at Power Company at Havana (cm) . . . 262
  - Sangamon River at Fisher (dcm) . . . 264
  - Sangamon River at Monticello (d) . . . 268
  - Sangamon River at Allerton Park near Monticello (cm) . . . 269
  - Sangamon River at Lake Decatur Water Intake at Decatur (cm) . . . 272
  - Sangamon River at Route 48 at Decatur (dcm) . . . 275
  - Sangamon River near Niantic (cm) . . . 279
  - Sangamon River at Roby (cm) . . . 282

South Fork Sangamon River:

- Flat Branch near Taylorville (cm) . . . 285
- South Fork Sangamon River at Kincaid (cm) . . . 288
  - Sangchris Lake near New City (cm) . . . 291
  - Horse Creek at Pawnee (d) . . . 294
- South Fork Sangamon River near Rochester (d) . . . 295
- South Fork Sangamon River below Rochester (cm) . . . 296
- Sugar Creek near Springfield (cm) . . . 299
- Sangamon River at Riverton (cm) . . . 302
  - Spring Creek at Springfield (d) . . . 305
  - Spring Creek at Burns Lane Bridge at Springfield (cm) . . . 306
- Sangamon River at Petersburg (cm) . . . 309
  - Salt Creek near Rowell (dcm) . . . 312
    - Lake Fork near Cornland (dcm) . . . 315
    - Kickapoo Creek at Waynesville (dcm) . . . 318
    - Kicakpoo Creek near Lincoln (cm) . . . 321
    - Sugar Creek near Bloomington (d) . . . 324
    - Sugar Creek near Hartsburg (cm) . . . 325
  - Salt Creek near Greenview (dcm) . . . 328
- Sangamon River near Oakford (dcms) . . . 332
- Sugar Creek near Frederick (cm) . . . 340
- La Moine River at Colmar (dcm) . . . 343
- La Moine River at Ripley (dcm) . . . 347
- Indian Creek at Arenzville (cm) . . . 351
- Illinois River at Meredosia (d) . . . 353
  - McKee Creek at Chambersburg (cm) . . . 354
  - Mauvaise Terre Creek near Merritt (cm) . . . 356
- Illinois River at Valley City (cms) . . . 358
  - Apple Creek near Eldred (cm) . . . 365
  - Macoupin Creek near Macoupin (cm) . . . 367
  - Macoupin Creek near Kane (dcm) . . . 370
- Illinois River at Hardin (cm) . . . 374

INTRODUCTION

Water resources data for the 1984 water year for Illinois consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 74 gaging stations; stage only at 2 gaging stations; stage only at 3 lake stations; water quality at 94 gaging stations; and water levels at 3 observation wells. Also included are data for 15 crest-stage partial-record stations. Locations of these sites are shown on figures 1 and 2. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data together with the data in Volume 1 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in Illinois.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Virginia 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report IL-84-2." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (217) 398-5353.

COOPERATION

The U.S. Geological Survey and organizations of the State of Illinois have had cooperative agreements for the systematic collection of streamflow records since 1930, and for water-quality records since 1953. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Illinois Department of Transportation, J. D. Kramer, secretary, through Division of Water Resources, Donald R. Vonnahme, director.

Illinois Environmental Protection Agency, Richard J. Carlson, director, through Division of Water Pollution Control, Eugene Seebald, manager.

Department of Energy and Natural Resources, Michael B. Witte, director, through Water Survey Division, Stanley A. Changnon, chief.

Bloomington and Normal Sanitary District, James M. Pappas, executive director.

Forest Preserve District of Cook County, G. W. Dunne, president, Board of County Commissioners, A. L. Janura, superintendent.

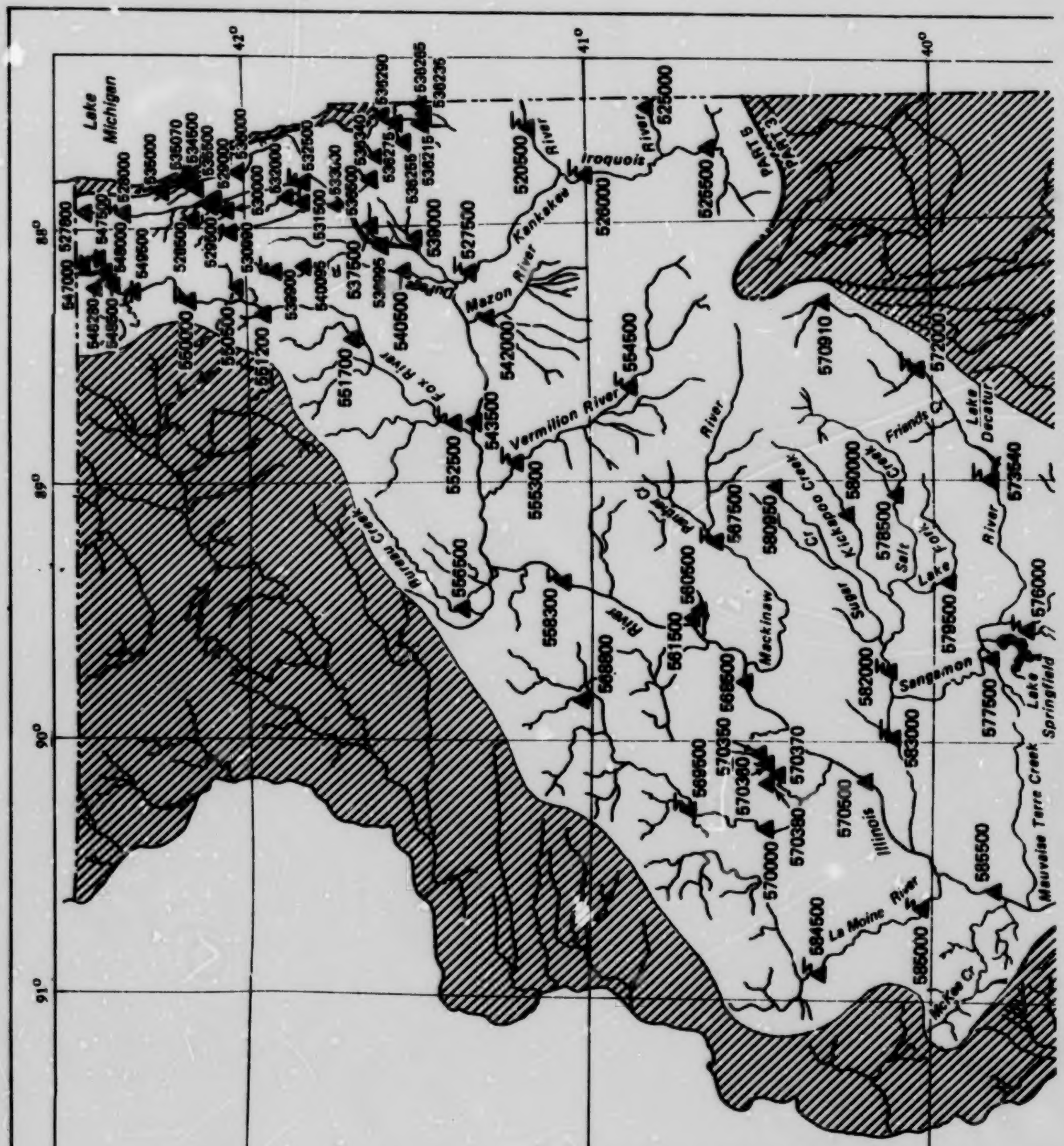
The Metropolitan Sanitary District of Greater Chicago, N. J. Melas, president, Cecil Lue-Hing, director, Research and Development.

City of Springfield, Bobbie Orr, superintendent, Water Division, and Paul Bonansinga, commissioner.

City of Decatur, William B. Sands, director, Public Works.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 15 gaging stations, 4 water-quality stations, and 9 crest-stage partial-record stations published in this volume, and by the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce.

Organizations that supplied data are acknowledged in station descriptions.


91°
90°
89°
88°
42°
41°
40°
Lake Michigan
547000
527800
546280
547500
546500
548000
528000
549500
535000
535070
534500
550000
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530090
551200
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539900
532500
540095
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569500
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568500
567500
570360
570000
580950
570380
570370
584500
570910
570500
580000
582000
578500
583000
585000
572000
579500
585500
577500
573540
576000
Bureau Creek
Fox River
Vermilion River
Mazon River
DuPage
Kankakee River
Iroquois River
River
Panther Cr
River
Mackinaw
Sugar Cr
Kickapoo Creek
Salt Creek
Friends Cr
Lake Fork
Sangamon
River
Lake Decatur
Illinois
La Moine River
McKee Cr
Mauvaise Terre Creek
Lake Springfield
PART 5
PART 3

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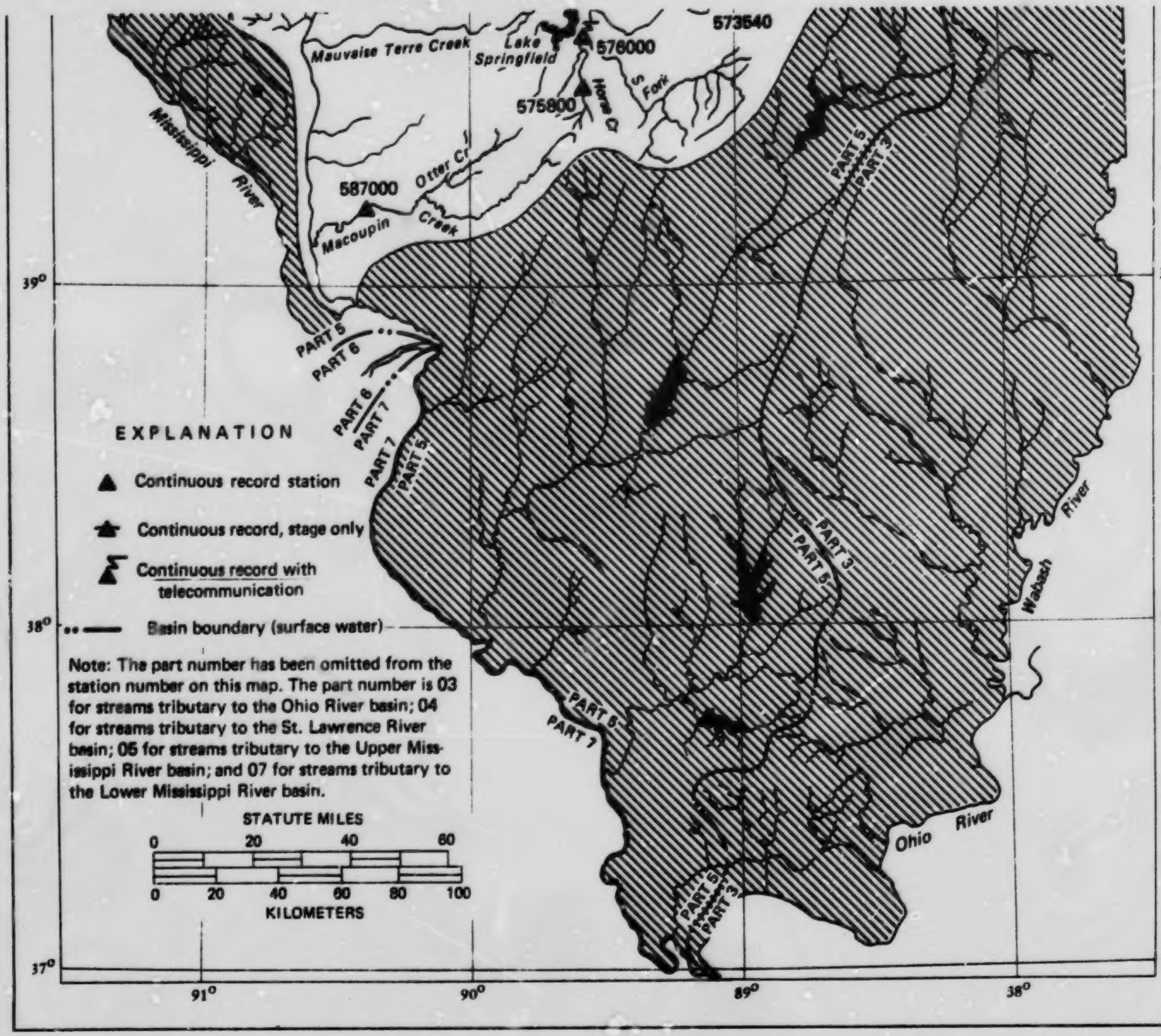
573540
Lake
Springfield
576000
575800
Mauvaise Terre Creek
Horse Cr
S. Fork
Otter Cr
587000
Macoupin
Creek
Mississippi
River
PART 5
PART 6
PART 6
PART 7
PART 7
PART 5
PART 5
PART 3
PART 3
PART 5
PART 6
PART 7
PART 5
PART 3
Wabash
River
Ohio
River
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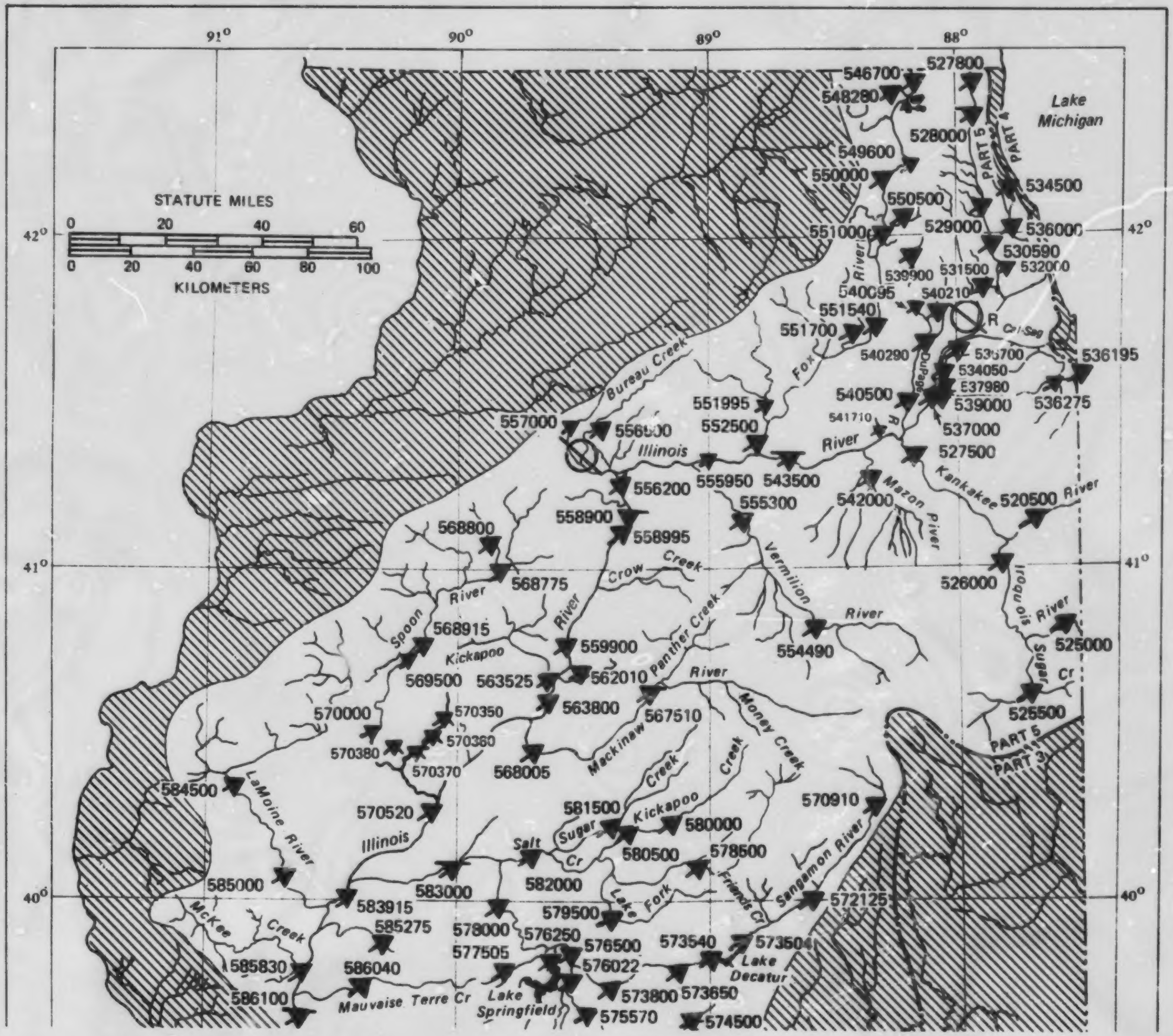
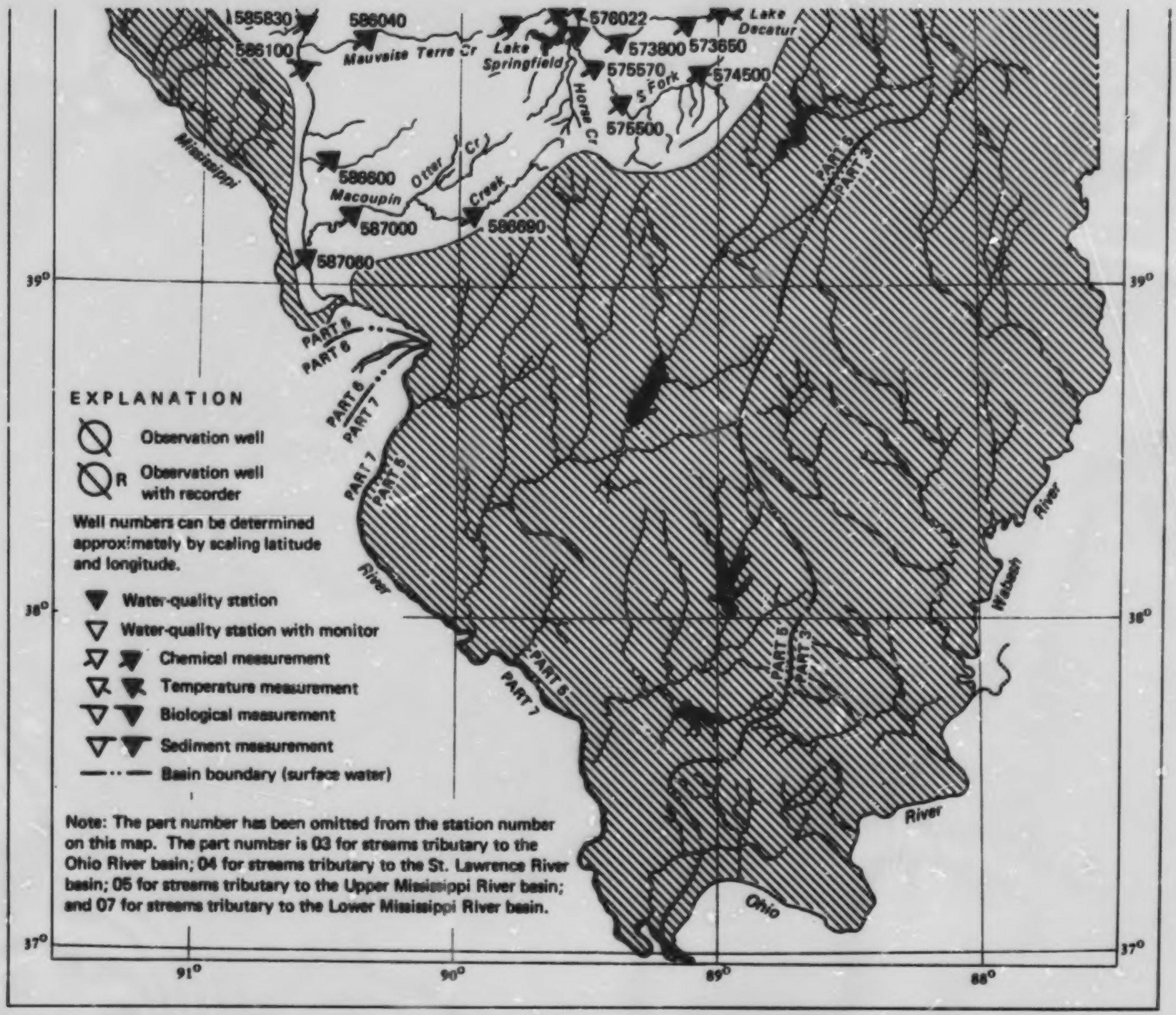
39°
38°
38°
37°
37°
91°
90°
89°
38°
EXPLANATION
Continuous record station
Continuous record, stage only
Continuous record with telecommunication
Basin boundary (surface water)
STATUTE MILES
0
20
40
60
0
20
40
60
80
100
KILOMETERS

Note: The part number has been omitted from the station number on this map. The part number is 03 for streams tributary to the Ohio River basin; 04 for streams tributary to the St. Lawrence River basin; 05 for streams tributary to the Upper Mississippi River basin; and 07 for streams tributary to the Lower Mississippi River basin.

Figure 1. Map of Illinois showing location of active surface water gaging stations in the Illinois River basin


91°
90°
89°
88°
42°
41°
40°
STATUTE MILES
0 20 40 60
0 20 40 60 80 100
KILOMETERS
Lake Michigan
PART 5
PART 4
PART 3
546700
527800
548280
528000
549600
550000
550500
534500
551000
529000
536000
530590
531500
532000
539900
540095
540210
551540
551700
540290
536700
534050
537980
536195
536275
540500
539000
537000
541710
527500
551995
552500
557000
556800
556200
555950
543500
542000
555300
520500
558900
558995
568800
568775
526000
568915
559900
554490
525000
569500
563525
562010
563800
567510
525500
570000
570350
570360
570380
570370
568005
584500
570520
570910
581500
580000
580500
578500
585000
583000
582000
583915
572125
579500
585275
578000
576250
576500
573540
573504
585830
577505
576022
586040
573800
573650
586100
575570
574500
Bureau Creek
Illinois
River
Fox
River
DuPage R
Cal-Sag
R
Kankakee
River
Mazon
River
Vermilion
River
Iroquois
River
Sugar Cr
Crow Creek
Spoon River
Kickapoo
River
Panther Creek
Mackinaw
River
Money Creek
Creek
Creek
Sugar
Kickapoo
Salt
Cr
Lake Fork
Friends Cr
Sangamon River
LaMoine River
Illinois
McKee Creek
Mauvaise Terre Cr
Lake Springfield
Lake Decatur

4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PART 7
PART 7
PART 6
PART 5
PART 3
PART 5
PART 3
PART 6
PART 7
River
Wabash River
River
Ohio
39°
38°
37°
91°
90°
89°
88°
EXPLANATION
Observation well
Observation well with recorder
Well numbers can be determined approximately by scaling latitude and longitude.
Water-quality station
Water-quality station with monitor
Chemical measurement
Temperature measurement
Biological measurement
Sediment measurement
Basin boundary (surface water)

Note: The part number has been omitted from the station number on this map. The part number is 03 for streams tributary to the Ohio River basin; 04 for streams tributary to the St. Lawrence River basin; 05 for streams tributary to the Upper Mississippi River basin; and 07 for streams tributary to the Lower Mississippi River basin.

Figure 2. Map of Illinois showing location of water-quality stations and observation wells in the Illinois River basin

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Hydrologic conditions are different in the northern, central, and southern parts of the State. Long-term average annual precipitation is 35 inches in the north, 37 inches in the center, and 43 inches in the south. Precipitation during the 1984 water year was excessive throughout the State except for northwestern Illinois where precipitation was slightly below normal. Precipitation totals were 34.1, 43.2, and 50.6 inches in northern, central, and southern Illinois, respectively. Departures from the median for the reference period 1951-80 in northern, central, and southern Illinois were -1.3, +6.4, and +8.4 inches, respectively.

During the 1984 water year, excessive runoff occurred at all three index stations. Runoff at the northern index station, Pecatonica River at Freeport (05435500), was 10.04 inches, which is 118 percent of the median. Runoff at the central index station, Sangamon River at Monticello (05572000), was 14.54 inches, which is 174 percent of the median. Runoff at the southern index station, Skillet Fork at Wayne City (03380500), was 20.10 inches, which is 193 percent of the median. Figure 3 on page 7 shows a comparison of monthly and annual mean discharges for the index stations.

Excessive runoff occurred during December, May, June, and July at the northern index station. Runoff was in the normal range for the remainder of the year. No record peak stages, discharges, major floods, or droughts occurred during the year.

Excessive runoff occurred during December, February, and May at the central index station. Deficient runoff occurred during July, August, and September. Several rivers were above flood stage during the period from March to May; however, no new peak stages or discharges of record were established and there were no major floods. By September, most rivers in the central part of the State were at low flow. The September mean flow at the index station was 37 percent of the annual median flow.

Excessive runoff occurred during 7 months at the southern index station. Major rivers were near or slightly above flood stage by mid-December but returned to the normal runoff range in January. Normal runoff occurred in January, May, and August. Runoff was less than normal in June and July. In September, precipitation in the southern half of the State exceeded 4 inches in most locations and exceeded 8 inches near Springfield and Effingham. The September rains caused runoff in most rivers to return to normal range.

Water Quality

Total nitrogen concentrations continue to be high in the northern and central parts of the State where agriculture is the dominant land use. Concentrations of total nitrite plus nitrate as nitrogen (N) exceeded the Illinois Pollution Control Board (IPCB) standard of 10.0 mg/L nitrate as N one or more times at many sites. Nitrate plus nitrite as N concentrations between 9.0 and 9.9 mg/L were measured at the City of Decatur Public Water Supply Intake at the Lake Decatur Dam (05573504) in January, April, May, and June.

Total iron and manganese concentrations are also high in most of the State's surface waters. The median total-iron concentrations in 1984 exceeded the IPCB standard of 1.0 mg/L, set for general use, at five of the seven NASQAN sites. The higher iron and manganese concentrations are found in southern and west-central Illinois where many of the streams receive drainage from areas that are being surface mined for coal. Sulfate concentrations and specific conductance values are also higher in these areas. The reaction of acidic mine drainage with the carbonate rocks and glacial materials through which it flows causes near-neutral pH's to occur in most of the State's surface waters that drain mined areas.

Suspended-sediment yields vary in the State. The lowest measured yield was at Illinois River at Henry (05558300) and amounted to 68 (tons/mi^2)/yr. The highest measured yield was at Mackinaw River below Congerville (05567510) and amounted to 520 (tons/mi^2)/yr.

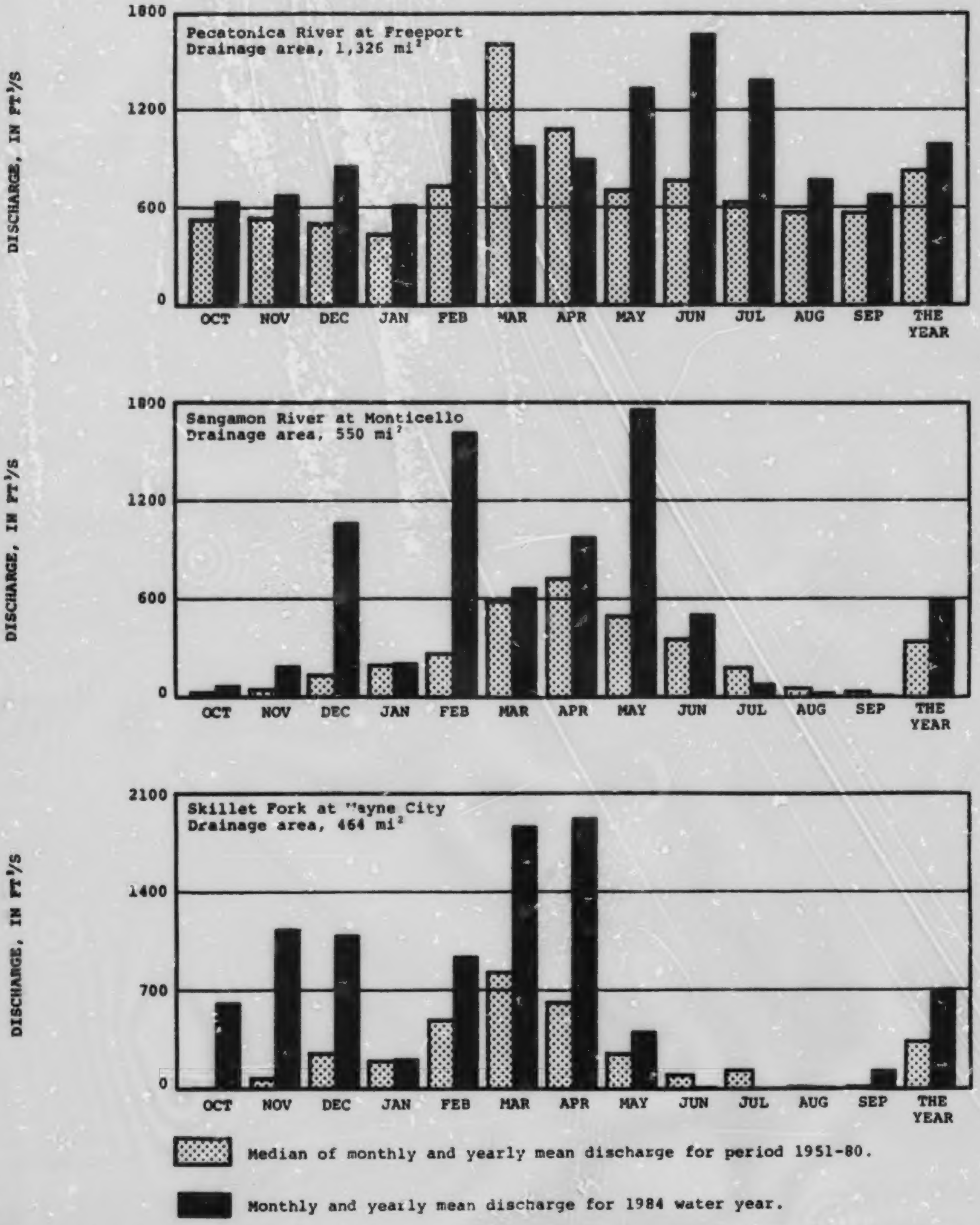

Figure 3.--Discharge during 1984 water year compared with median discharge for the period 1951-80 for three representative gaging stations.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry-weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease. Others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Concentration is expressed as numbers of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, coccal bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Concentration is expressed as numbers of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Bottom material: See Bed material.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample which passes through a 0.45-μm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referenced to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are made.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as an equivalent amount of calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Micrograms per gram (μg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element per unit mass (gram) of sediment.

Micrograms per kilogram (UG/KG, μg/kg) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element per unit mass (kilogram) of sediment.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution or suspension as mass (micrograms) of the constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit expressing the concentration of chemical constituents in solution or suspension as mass (milligrams) of the constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-μm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-μm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter, or more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03336900, which appears to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "336900."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 4 below.

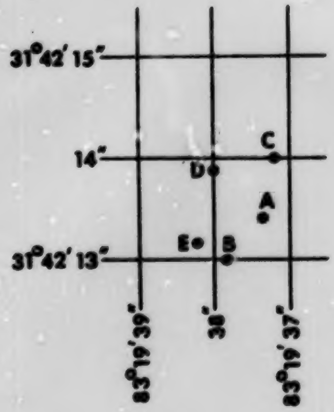

Figure 4.--System for numbering wells and miscellaneous sites (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal inter-agency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, types and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for most stations, is that published in "River Mileages and Drainage Areas for Illinois Streams." Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum of 1929; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum of 1929 is explained in "DEFINITION OF TERMS" on page 10.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record; second, information available outside the period of record; and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. in 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following "EXTREMES," for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge meausrements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation, or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Several cooperating agencies have contributed to the water-quality data included in this report. All these agencies have also participated in quality control and quality assurance programs designed to standardize collection and analysis procedures and to assure comparability of all data. Agency participation is identified in the tables for all water samples by the use of parameter codes. The following codes identify the agency or office having the principal responsibility for collecting and/or analyzing water samples.

Agency	Agency Code
Illinois Environmental Protection Agency	17002
Illinois State Water Survey	17003
Metropolitan Sanitary District of Greater Chicago	17001
U.S. Geological Survey, Atlanta Laboratory	80010
U.S. Geological Survey, Denver Laboratory	80020
U.S. Geological Survey, Illinois District	81700

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page. Other accepted procedures are included in the National Handbook of Recommended Methods of Water Data Acquisition, Standard Methods for the Analysis of Water and Wastewater, U.S. Geological Survey Methods for Analysis of Inorganic Substances in Water and Fluvial Sediments, and the U.S. Environmental Protection Agency Methods for Chemical Analysis of Water and Wastes.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where temperature is recorded on charts, maximum and minimum values are manually processed and at stations where temperature is recorded on tape, maximum, minimum, and mean values are machine processed for publication.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily, or in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 4.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above NGVD is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of the month (eom).

Water levels are reported to as many significant figures as can be justified by local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net changes of water level between successive measurements may be only a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide the more effective and efficient means of releasing data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

Forty-three manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. Water temperature--influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. General procedure for gaging streams, By R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A10. Discharge rating at gaging stations, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1981. 64 pages.

3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A13. Computation of continuous records of streamflow, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. Use of flumes in measuring discharge, by F. A. Kilpatrick and V. R. Schneider: USGS-TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. Introduction to ground-water hydraulics, a programed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. A model for simulation of flow in singular and interconnected channels, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter A3. 1981. 110 pages.

8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. Installation and service manual for U.S. Geological Survey manometers, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

UPPER MISSISSIPPI RIVER BASIN

ILLINOIS RIVER BASIN

05520500 KANKAKEE RIVER AT MOMENCE, IL

LOCATION.--Lat 41°09'36", long 87°40'07", in SW¼NE¼ sec.24, T.31 N., R.13 E., Kankakee County, Hydrologic Unit 07120001, on right bank at Hill Street in Momence, 0.2 mi downstream from bridge on State Highways 1 and 17, 1.2 mi upstream from Tower Creek, and at mile 47.9.

DRAINAGE AREA.--2,294 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February to December 1903, February to July 1906, December 1914 to current year.

REVISED RECORDS.--WSP 1238: 1916, 1930. WSP 1308: 1915(M), 1917(M), 1919(M), 1922(M), 1926(M), 1934-35(M), 1938(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mi upstream at datum 1.00 ft higher. Aug. 1, 1938, to Aug. 8, 1969, water-stage recorder at present site at datum 1.00 ft higher.

REMARKS.--Water-discharge records good except those for winter periods and those for period of no gage-height record, July 5 to Aug. 6, which are poor.

AVERAGE DISCHARGE.--69 years (water years 1916-84), 1,973 ft^3/s, 11.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s Mar. 6, 1979, gage height, 10.51 ft, ice jam; minimum observed, 306 ft^3/s Sept. 1, 6, 17, 1919.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,200 ft^3/s Feb. 13, gage height, 7.96 ft (backwater from ice); minimum, 512 ft^3/s Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	747	767	1850	1800	1400	2500	5230	3890	5240	2340	1100	517
2	757	757	1790	1700	1400	2400	5010	3710	4950	2170	1100	535
3	767	757	1730	1650	1400	2500	4840	3540	4610	1920	900	553
4	778	757	1680	1650	1400	2600	5080	3450	4270	1710	900	589
5	747	757	1620	1600	1450	2700	4700	3360	3950	1650	900	591
6	727	757	1730	1550	1500	2700	4480	3240	3500	1500	900	583
7	727	761	1930	1500	1600	2700	4240	3210	3350	1500	921	582
8	727	767	1990	1500	1650	2620	4030	3120	3220	1450	882	630
9	717	779	2070	1500	1750	2560	3820	3070	3220	1500	860	629
10	717	856	2230	1500	2000	2490	3620	2990	3200	1550	878	592
11	687	859	2460	1450	2500	2410	3470	2910	3180	1700	882	612
12	767	834	3590	1450	3000	2300	3380	2810	3030	1650	864	734
13	767	825	3560	1300	7000	2300	3390	2780	2970	1550	832	746
14	737	817	3640	1250	6000	2280	3440	2730	2640	1500	808	708
15	737	810	4010	1200	4200	2350	3380	2690	2470	1450	802	697
16	788	854	3830	1150	3800	3760	3550	2660	2370	1400	754	697
17	798	909	3640	1100	3600	3930	3760	2620	2350	1300	709	705
18	767	903	3420	1100	3600	3960	3690	2550	2320	1250	699	662
19	757	935	2890	1050	3700	4150	3660	2480	2200	1200	697	663
20	747	972	2520	1050	3700	6020	3620	2630	2040	1150	702	670
21	780	952	2400	1000	3600	6730	3580	2890	1910	1150	665	666
22	810	951	2300	1000	3500	6610	4000	3250	1720	1100	660	653
23	860	992	2250	1000	3400	6480	4740	5530	1700	1000	651	652
24	900	1050	2200	1000	3300	6630	4530	5330	2040	1000	629	645
25	940	1060	2150	1050	3000	6540	4450	5070	2430	1000	604	609
26	960	1050	2100	1100	2900	6620	4390	5430	2700	1000	553	619
27	930	1110	2000	1150	2700	6330	4340	5200	2960	1100	565	629
28	880	1590	1950	1250	2600	6240	4270	5400	3100	1200	566	649
29	850	1830	1900	1350	2500	5980	4190	6260	3130	1200	565	676
30	810	1840	1850	1500	---	5700	4050	5850	2940	1200	550	665
31	778	---	1800	1400	---	5450	---	5460	---	1100	527	---
TOTAL	24461	28858	75080	40850	84150	126540	122930	116110	89710	43490	23625	19158
MEAN	789	962	2422	1318	2902	4146	4098	3745	2990	1403	762	639
MAX	960	1840	4010	1800	7000	6730	5230	6260	5240	2340	1100	746
MIN	687	757	1620	1000	1400	2280	3380	2480	1700	1000	527	517
CFSM	.34	.42	1.06	.57	1.27	1.81	1.79	1.63	1.30	.61	.33	.28
IN.	.40	.47	1.22	.66	1.36	2.08	1.99	1.88	1.45	.71	.38	.31

CAL YR 1983	TOTAL	896030	MEAN	2455	MAX	9420	MIN	620	CFSM	1.07	IN.	14.53
WTR YR 1984	TOTAL	796962	MEAN	2177	MAX	7000	MIN	517	CFSM	.95	IN.	12.92

05520500 KANKAKEE RIVER AT MOMENCE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year. Additional chemical data for water years 1959-72 are published in Water-Resources Investigations 78-23 and 79-24 as site F 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV											
09...	1000	17002	17002	767	617	7.7	10.0	3.1	9.5	14	330
JAN											
04...	1000	17002	17002	E1650	627	6.9	.0	.80	7.2	9	150
APR											
11...	1000	17002	17002	3490	598	7.8	9.0	2.1	10.4	15	K20
MAY											
03...	0900	17002	17002	3570	597	7.4	13.0	1.4	9.4	25	K10
29...	1300	17002	17002	6300	530	7.2	14.0	6.0	7.6	23	--
JUN											
20...	1200	17002	17002	2040	613	7.7	24.0	1.7	6.4	28	K100
JUL											
18...	1100	17002	17002	1250	640	7.9	25.0	4.9	7.8	23	160
AUG											
15...	1200	17002	17002	809	667	8.2	25.0	9.2	9.0	18	50
SEP											
11...	1100	17002	17002	601	616	7.8	21.5	14	8.6	15	<10

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV											
09...	370	190	.00	95	97	30	30	13	14	2.6	2.5
JAN											
04...	350	150	.00	91	92	28	28	11	11	2.2	2.3
APR											
11...	330	150	.00	87	88	26	26	10	11	2.3	2.3
MAY											
03...	380	210	.00	94	93	37	37	9.1	9.2	2.5	2.4
29...	200	80	.00	69	54	22	17	6.5	5.5	2.4	1.9
JUN											
20...	310	130	.00	86	83	27	26	12	12	2.4	2.2
JUL											
18...	330	120	.00	87	85	28	28	16	16	2.1	1.9
AUG											
15...	340	130	.00	87	89	29	29	21	21	2.4	2.3
SEP											
11...	240	67	.00	57	56	26	25	18	18	2.6	2.4

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05520500 KANKAKEE RIVER AT MOMENCE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 09...	177	100	23	<.1	24	6	.53	<.100	<.001	--	.70
JAN 04...	197	110	21	.1	1	0	1.0	.160	<.001	.54	.70
APR 11...	177	110	21	.1	17	4	1.6	<.100	<.001	--	.70
MAY 03...	180	100	21	.1	12	8	1.4	<.100	<.001	--	.70
29...	125	72	--	.2	70	10	4.3	<.100	<.001	--	1.2
JUN 20...	188	97	20	.1	65	20	1.4	<.100	<.003	--	1.0
JUL 18...	206	110	22	.1	45	10	.71	<.100	<.005	--	1.9
AUG 15...	208	130	22	.1	48	10	.39	<.100	<.009	--	.80
SEP 11...	176	78	31	.3	27	6	.12	.110	.003	.59	.70

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
NOV 09...	1.2	.070	.020	160	<50	1	50	46	<1	<.5
JAN 04...	1.7	.020	<.010	69	<50	1	53	52	<2	<2
APR 11...	2.3	.050	<.010	150	<50	2	50	44	<1	<.5
MAY 03...	2.1	.050	.010	210	<50	1	50	44	<1	<.5
29...	5.5	.180	.020	860	<50	4	60	34	<1	<.5
JUN 20...	2.4	.110	.030	1200	<50	5	75	55	<1	<1
JUL 18...	2.6	.080	.020	450	<50	5	62	49	<1	<.5
AUG 15...	1.2	.110	.020	520	<50	4	61	52	<1	<.5
SEP 11...	.82	.070	.030	830	<50	3	61	53	<1	<1

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)
NOV 09...	63	65	<3	<3	<5	<5	<5	<5	<5	<5
JAN 04...	59	57	<3	<3	7	6	<5	<5	<5	<5
APR 11...	57	57	<3	<3	<5	<5	<5	<5	<5	<5
MAY 03...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
29...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
JUN 20...	67	<50	3	<3	<5	6	<5	6	5	7
JUL 18...	65	62	<3	<3	10	<5	<5	<5	<5	<5
AUG 15...	110	110	<3	<3	6	13	<5	6	<5	<5
SEP 11...	130	130	<3	<3	<5	<5	<5	<5	<5	<5

05520500 KANKAKEE RIVER AT MOMENCE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
NOV 09...	1200	<50	<50	<50	140	70	<.1	7	6	<3
JAN 04...	360	<50	<50	<50	160	150	<.1	12	15	<3
APR 11...	1000	<50	<50	<50	140	50	<.1	<5	<5	<3
MAY 03...	1000	65	<50	<50	110	42	<.1	<5	<5	<3
29...	1400	88	<50	<50	120	29	<.1	5	<5	<3
JUN 20...	3300	70	<50	<50	330	46	<.1	11	10	<3
JUL 18...	2100	<50	<50	<50	220	23	<.1	5	<5	<3
AUG 15...	1800	<50	<100	<100	200	36	<.1	8	12	<3
SEP 11...	600	<50	<50	<50	59	8	--	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 09...	<3	130	130	<5	<5	<50	<50	.02	<5	1
JAN 04...	<3	130	130	<5	<5	<100	<50	<.01	<5	0
APR 11...	<3	130	130	<5	<5	<50	<50	<.01	<5	0
MAY 03...	<3	120	120	<5	<5	<50	<50	<.01	<5	0
29...	<3	100	83	<5	<5	<50	<50	<.01	<5	1
JUN 20...	4	150	140	<5	<5	<50	<50	<.01	<5	1
JUL 18...	<3	140	140	<5	<5	<50	<50	<.01	<5	1
AUG 15...	8	140	140	<5	7	<50	<50	<.01	<5	1
SEP 11...	<5	240	240	<5	<5	<50	<50	<.01	<5	--

05525000 IROQUOIS RIVER AT IROQUOIS, IL

LOCATION.--Lat 40°49'25", long 87°34'55", in SE¼ sec.15, T.27 N., R.11 W., Iroquois County, Hydrologic Unit 07120002, on left bank at upstream side of bridge on U.S. Highway 52 in Iroquois, 500 ft upstream from Penn Central bridge, 4.5 mi downstream from Indiana-Illinois State line, and at mile 50.4.

DRAINAGE AREA.--686 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.34 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 553 ft^3/s, 10.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s June 13, 1958, gage height, 26.31 ft; minimum, 5.2 ft^3/s Sept. 13, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,480 ft^3/s Feb. 15, May 28; maximum gage height, 19.86 ft Feb. 15; minimum discharge, 18 ft^3/s Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	100	1200	360	90	395	2110	701	3010	116	48	19
2	22	110	800	330	90	457	1610	624	2440	108	45	19
3	21	130	600	320	200	488	1260	579	1680	105	43	19
4	20	110	300	300	300	522	1110	604	1370	107	42	18
5	20	90	278	350	600	559	1150	747	987	112	41	19
6	20	60	501	300	550	534	1180	849	729	114	45	19
7	21	70	810	260	550	475	1110	837	584	147	43	19
8	21	65	846	240	520	416	961	759	498	147	39	19
9	21	55	738	230	600	396	830	674	457	119	36	20
10	22	150	604	220	650	425	741	595	455	101	35	20
11	22	600	770	210	700	425	675	540	432	99	33	21
12	23	1000	1680	200	728	412	630	508	381	100	31	24
13	26	600	2070	190	988	369	658	483	342	95	29	32
14	28	400	2300	180	3110	339	709	459	320	82	27	30
15	30	300	2540	170	4470	392	707	434	320	69	26	28
16	30	250	2430	170	4380	1540	716	402	315	61	28	26
17	29	150	2000	160	4120	2270	806	378	293	60	26	25
18	27	170	1800	150	3770	2460	926	364	270	55	25	25
19	27	150	1700	140	3410	2500	960	361	247	50	25	25
20	27	140	1300	140	3000	3320	905	659	219	49	24	23
21	79	230	1100	130	2560	3850	818	1640	195	54	23	24
22	500	200	1000	130	2120	3960	987	1970	182	52	24	23
23	700	500	950	120	1720	3970	1490	2270	186	52	25	23
24	1000	1000	850	120	1360	3830	1690	2280	245	48	22	22
25	600	700	760	110	1060	3820	1730	2170	252	52	23	23
26	500	600	700	110	835	4130	1620	3810	214	51	22	25
27	300	350	600	100	694	4090	1420	4450	178	60	22	27
28	200	600	520	100	551	4000	1180	4470	159	80	22	28
29	140	1000	470	95	394	3740	935	4340	146	83	22	27
30	110	1500	450	92	---	3230	797	4020	128	71	21	29
31	120	---	400	90	---	2660	---	3550	---	56	20	---
TOTAL	4728	11380	33067	5817	44120	59974	32421	46527	17434	2555	937	701
MEAN	153	379	1067	188	1521	1935	1081	1501	581	82.4	30.2	23.4
MAX	1000	1500	2540	360	4470	4130	2110	4470	3010	147	48	32
MIN	20	55	278	90	90	339	630	361	128	48	20	18
CFSM	.22	.55	1.56	.27	2.22	2.82	1.58	2.19	.85	.12	.04	.03
IN.	.26	.62	1.79	.32	2.39	3.25	1.76	2.52	.95	.14	.05	.04

CAL YR 1983	TOTAL	235441	MEAN	645	MAX	4410	MIN	18	CFSM .94	IN.	12.77
WTR YR 1984	TOTAL	259661	MEAN	709	MAX	4470	MIN	18	CFSM 1.03	IN.	14.08

05525000 IROQUOIS RIVER AT IROQUOIS, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site PL 04.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
NOV 08...	1400	17002	17002	63	761	7.6	10.0	8.1	5.7	26	60	--
JAN 04...	1500	17002	17002	300	708	7.0	.0	1.3	8.8	8	660	--
APR 10...	1100	17002	17002	742	628	7.8	8.0	1.7	10.4	14	190	290
MAY 03...	1300	17002	17002	558	646	7.2	13.0	4.7	9.3	16	180	390
30...	0900	17002	17002	4030	452	7.0	14.0	5.8	7.0	19	--	210
JUN 21...	0900	17002	17002	197	677	7.7	24.0	3.4	5.6	18	200	330
JUL 19...	0900	17002	17002	50	677	7.7	22.0	1.8	6.1	24	150	330
AUG 16...	0900	17002	17002	29	701	7.7	24.0	9.8	4.4	20	K60	340
SEP 12...	0900	17002	17002	24	718	7.5	20.5	28	5.2	19	K7300	340

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 08...	110	--	32	--	22	--	4.8	--	62	16	.77	<.100
JAN 04...	100	--	31	--	12	--	2.1	--	11	8	6.9	.130
APR 10...	[illegible]	78	28	24	8.6	7.4	2.2	1.8	42	4	8.2	<.100
MAY 03...	96	94	39	38	9.6	9.9	2.2	2.0	45	10	7.5	<.100
30...	60	52	19	19	4.7	5.0	2.4	2.1	30	0	9.6	.130
JUN 21...	91	87	30	27	13	13	2.4	2.0	--	--	4.9	<.100
JUL 19...	87	85	30	29	19	19	2.4	2.2	59	12	1.1	<.100
AUG 16...	93	85	32	30	23	22	3.1	2.6	82	13	.15	<.100
SEP 12...	78	78	36	36	13	13	2.4	2.4	35	6	.68	.270

K Results based on colony count outside the acceptable range (non-ideal colony count).

05525000 IROQUOIS RIVER AT IROQUOIS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
NOV 08...	<.001	--	--	690	--	90	--	<2	--	130	--	<3
JAN 04...	<.001	--	--	75	--	64	--	<2	--	62	--	<3
APR 10...	<.001	.070	.020	610	<50	57	43	<1	<1	53	<50	<3
MAY 03...	<.001	.120	.060	630	<50	58	51	<1	<.5	<50	<50	<3
30...	<.001	.240	.170	790	<50	54	35	<1	<.5	--	--	<3
JUN 21...	<.003	.160	.090	1900	<50	89	70	<1	<1	65	62	<3
JUL 19...	<.002	.150	.070	640	<50	86	76	<1	<.5	120	120	3
AUG 16...	<.003	.110	.110	1600	<50	100	87	<1	<.5	190	180	<3
SEP 12...	.004	.130	.080	530	<50	65	61	<1	<.5	120	120	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
NOV 08...	--	<5	--	<5	--	<5	--	1400	--	<50	--	180
JAN 04...	--	<5	--	<5	--	<5	--	150	--	<50	--	74
APR 10...	<3	<5	<5	<5	<5	<5	<5	1100	<50	<50	<50	65
MAY 03...	<3	<5	<5	<5	<5	<5	<5	1100	<50	<100	<50	78
30...	<3	--	--	<5	<5	--	--	800	310	<50	<50	36
JUN 21...	<3	10	6	7	<5	<5	<5	2200	<50	100	<50	130
JUL 19...	<3	<5	<5	<5	<5	<5	<5	1000	<50	<50	<50	170
AUG 16...	<3	<5	<5	<5	7	6	<5	2200	<50	<50	<50	290
SEP 12...	<3	10	8	<5	5	<5	<5	530	<50	<100	<50	110

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 08...	--	--	<5	--	<3	--	430	--	<5	--	100	--
JAN 04...	--	<.1	8	--	<3	--	270	--	<5	--	<100	--
APR 10...	25	--	<5	<5	<3	<3	210	190	<5	<5	<50	<50
MAY 03...	40	--	<5	<5	4	<3	220	220	7	<5	<50	<50
30...	16	--	<5	<5	<3	<3	130	120	<5	<5	<50	<50
JUN 21...	41	--	16	<5	<3	<3	290	280	7	<5	<50	<50
JUL 19...	82	--	11	11	<3	<3	330	330	<5	<5	<50	<50
AUG 16...	150	--	<5	<5	<3	<3	420	400	<5	<5	<100	<50
SEP 12...	70	--	8	9	4	4	240	240	<5	<5	<50	<50

05525500 SUGAR CREEK AT MILFORD, IL

LOCATION.--Lat 40°37'50", long 87°43'25", in NW¼NE¼ sec.16, T.25 N., R.12 W., Iroquois County, Hydrologic Unit 07120002, on right bank at downstream side of highway bridge, 200 ft downstream from Mud Creek, 1 mi west of Milford, and at mile 23.9.

DRAINAGE AREA.--446 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.00 ft National Geodetic Vertical Datum of 1929. Prior to July 23, 1970, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--36 years, 368 ft^3/s, 11.20 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft^3/s Feb. 21, 1951, gage height, 20.90 ft, from rating curve extended above 8,200 ft^3/s; maximum gage height, 23.74 ft Feb. 10, 1959, ice jam; minimum discharge, 2.0 ft^3/s Sept. 1, 2, 7, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 12	2200	6680	18.50	Mar. 26	0800	3930	16.70
Feb. 13	2330	8340	19.15	Apr. 23	1500	3040	15.19
Mar. 17	1200	3380	15.95	May 21	1100	9670	19.60
Mar. 21	1300	6010	18.20	May 26	2000	*14600	*21.15

Minimum daily discharge, 6.8 ft^3/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	66	740	220	52	178	599	607	1280	96	50	7.8
2	12	51	486	200	50	248	576	495	982	58	42	9.5
3	12	93	491	190	150	243	548	488	636	39	40	9.2
4	10	59	629	200	400	227	682	509	470	54	37	9.2
5	10	31	1210	200	450	190	875	530	419	83	37	9.2
6	10	41	1530	200	400	255	1580	517	358	74	48	9.6
7	12	45	1950	190	350	257	1120	490	320	43	78	8.7
8	12	40	1510	180	320	200	1060	459	306	65	104	7.5
9	12	36	639	170	300	241	952	423	1130	68	85	10
10	14	52	969	150	515	258	875	490	1060	64	102	11
11	16	508	1630	140	1980	195	817	419	573	95	49	12
12	17	691	4930	130	2550	198	789	373	325	93	40	9.8
13	18	441	4970	125	6230	185	861	368	258	64	34	8.7
14	22	273	3490	115	5190	154	857	353	168	55	33	8.9
15	24	227	3350	110	2530	238	828	276	127	45	35	10
16	24	178	2640	105	2450	1920	768	260	118	42	20	10
17	20	150	1850	100	2090	3280	711	252	119	40	40	9.3
18	16	138	843	95	1940	2880	683	250	132	37	47	9.0
19	7.4	127	520	92	1670	3240	646	358	143	37	40	8.1
20	11	113	460	90	1310	3620	611	1000	142	44	22	8.1
21	69	188	440	86	1030	5140	666	4000	130	40	11	6.8
22	376	174	400	82	815	3510	1520	3400	130	33	22	7.2
23	691	200	375	80	658	2730	2900	2900	169	29	22	8.5
24	1160	679	350	78	580	2430	2630	2400	697	27	14	11
25	813	552	340	74	425	2620	1710	2100	336	40	10	12
26	333	325	320	70	343	3730	1030	6000	200	79	11	12
27	180	241	300	66	286	2970	830	5000	156	82	10	12
28	122	381	280	64	222	2650	835	3000	130	79	11	9.4
29	74	619	260	60	197	2210	644	2300	118	70	12	9.2
30	68	1010	250	58	---	1450	625	1400	114	60	11	8.1
31	91	---	240	56	---	903	---	1000	---	55	8.8	---
TOTAL	4268.4	7729	38592	3776	35483	48550	29828	42417	11246	1790	1125.8	281.8
MEAN	138	258	1245	122	1224	1566	994	1368	375	57.7	36.3	9.39
MAX	1160	1010	4970	220	6230	5140	2900	6000	1280	96	104	12
MIN	7.4	31	240	56	50	154	548	250	114	27	8.8	6.8
CFSM	.31	.58	2.79	.27	2.74	3.51	2.23	3.07	.84	.13	.08	.02
IN.	.36	.64	3.22	.31	2.96	4.05	2.49	3.54	.94	.15	.09	.02

CAL YR 1983	TOTAL	187690.5	MEAN	514	MAX	8330	MIN	7.4	CFSM	1.15	IN.	15.65
WTR YR 1984	TOTAL	225087.0	MEAN	615	MAX	6230	MIN	6.8	CFSM	1.38	IN.	18.77

05525500 SUGAR CREEK AT MILFORD, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
NOV 08...	1300	17002	17002	44	747	8.1	10.0	4.0	7.8	13	130	--
JAN 03...	1300	17002	17002	E190	657	7.0	.0	1.1	10.3	8	290	--
APR 10...	1300	17002	17002	875	602	8.1	9.0	2.0	11.3	6	800	330
MAY 02...	1300	17002	17002	495	615	7.5	14.0	4.9	10.3	11	260	330
30...	1100	17002	17002	1400	455	7.1	13.0	3.3	8.6	23	--	230
JUN 21...	1100	17002	17002	130	664	7.7	24.0	4.8	7.1	17	2200	340
JUL 19...	1100	17002	17002	35	672	7.9	21.0	18	7.0	13	5600	340
AUG 16...	1000	17002	17002	16	683	7.8	23.0	3.1	6.1	5	6200	340
SEP 12...	1030	17002	17002	11	695	7.3	20.0	7.5	5.2	21	2200	330

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 08...	96	--	44	--	19	--	2.7	--	26	6	4.6	.170
JAN 03...	84	--	39	--	8.9	--	1.3	--	2	0	9.2	<.100
APR 10...	79	77	35	34	6.9	6.8	1.4	1.1	48	2	9.6	<.100
MAY 02...	77	74	36	35	6.1	5.8	1.3	1.0	32	3	9.1	<.100
30...	57	53	25	23	4.7	4.7	1.3	1.0	140	22	8.8	<.100
JUN 21...	83	78	36	34	10	10	2.1	1.2	--	--	8.1	<.100
JUL 19...	76	76	36	36	16	16	1.7	1.6	30	5	2.1	<.100
AUG 16...	79	78	36	35	16	16	2.3	2.2	38	7	.98	<.100
SEP 12...	85	83	32	30	22	22	3.2	3.1	68	2	<.10	.100

E Estimated.

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WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
NOV												
08...	.002	--	--	430	--	53	--	<1	--	150	--	<3
JAN												
03...	<.001	--	--	96	--	38	--	<2	--	73	--	<3
APR												
10...	<.002	.060	.030	1000	76	40	32	<1	<1	93	70	<3
MAY												
02...	<.001	.050	.020	850	<50	40	33	<1	<.5	130	66	<3
30...	<.001	.200	.080	1500	<50	51	28	<1	<.5	<50	<50	5
JUN												
21...	<.003	.100	.040	2800	<50	66	46	<1	<.5	93	89	6
JUL												
19...	<.003	.070	.040	490	<50	56	51	<1	<.5	120	120	<3
AUG												
16...	<.003	.100	.060	680	<50	68	61	<1	<.5	130	140	3
SEP												
12...	<.001	.170	.070	1300	<50	100	86	<1	<1	190	200	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
NOV												
08...	--	<5	--	<5	--	<5	--	800	--	<50	--	54
JAN												
03...	--	8	--	<5	--	<5	--	120	--	<50	--	24
APR												
10...	<3	<5	<5	<5	<5	<5	<5	1300	<50	<50	<50	44
MAY												
02...	<3	<5	<5	<5	<5	<5	<5	1200	<50	<50	<50	47
30...	<3	<5	<5	<5	<5	<5	<5	1300	<50	<50	<50	54
JUN												
21...	<3	18	10	<5	<5	<5	<5	2900	<50	<50	<50	[illegible]
JUL												
19...	<3	<5	<5	<5	<5	<5	<5	650	<50	<50	<50	53
AUG												
16...	<3	9	5	5	<5	<5	<5	870	<50	<100	<50	82
SEP												
12...	<3	<5	<5	<5	<5	<5	<5	1300	<50	<50	<50	280

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV												
08...	--	--	<5	--	<3	--	250	--	<5	--	120	--
JAN												
03...	--	<.1	11	--	<3	--	170	--	<5	--	<100	--
APR												
10...	13	--	<5	<5	<3	<3	150	150	<5	<5	<50	<50
MAY												
02...	14	--	18	<5	<3	<3	160	150	<5	<5	300	<50
30...	6	--	<5	<5	<3	<3	120	110	<5	<5	<50	<50
JUN												
21...	9	--	14	<5	<3	<3	190	180	<5	<5	<50	<50
JUL												
19...	17	--	<5	<5	<3	<3	210	210	<5	<5	<50	<50
AUG												
16...	47	--	11	11	4	4	220	220	<5	<5	<50	<50
SEP												
12...	160	--	6	<5	<3	<3	440	440	<5	<5	<50	<50

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05526000 IROQUOIS RIVER NEAR CHEBANSE, IL

LOCATION.--Lat 41°00'32", long 87°49'27", in SE¼SW¼ sec.10, T.29 N., R.13 W., Kankakee County, Hydrologic Unit 07120002, on right bank at upstream side of highway bridge, 3.1 mi downstream from Beaver Creek, 4.5 mi east of Chebanse, and at mile 6.5.

DRAINAGE AREA.--2,091 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1923 to current year.

REVISED RECORDS.--WSP 1308: 1924-28(M), 1930(M), 1936(M), 1938(M), 1942(M), 1947(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 595.99 ft National Geodetic Vertical Datum of 1929. Prior to June 16, 1976, nonrecording gage, and June 17, 1976, to Aug. 13, 1979, water-stage recorder, at site 600 ft upstream at datum 2.00 ft higher. Aug. 14 to Oct. 24, 1979, nonrecording gage at present site at datum 2.00 ft higher.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--61 years, 1,657 ft^3/s, 10.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft^3/s May 13, 1933, Mar. 7, 1979; maximum gage height, 21.68 ft Mar. 7, 1979, present datum, ice jam; minimum discharge, 9 ft^3/s Oct. 6-8, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in spring of 1913 reached a stage of 21.6 ft, present datum, discharge, about 34,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,400 ft^3/s Feb. 15, gage height, 15.40 ft; minimum daily, 36 ft^3/s Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	261	3720	1000	760	1110	6100	2060	8700	484	118	56
2	60	224	2820	980	760	1250	4770	1800	6600	428	112	49
3	58	196	1860	940	780	1470	3740	1640	4790	370	104	40
4	51	192	1430	900	1000	1590	3510	1580	3740	370	98	44
5	47	187	1410	880	1500	1700	3590	1620	3040	345	114	44
6	47	180	2630	840	2000	1650	3650	1760	2360	341	112	47
7	52	175	4180	800	2500	1470	3440	1940	1950	350	98	52
8	36	169	4530	780	2400	1240	2920	1810	1730	345	98	49
9	39	157	4170	740	2300	1050	2520	1730	2210	333	94	50
10	44	143	3270	720	2280	880	2220	1580	2710	294	96	54
11	50	314	3630	700	3720	800	1970	1420	2600	286	116	55
12	56	743	7940	680	6070	740	1810	1360	2060	257	108	62
13	68	1110	9900	660	15600	720	1810	1280	1350	250	87	61
14	73	998	10800	640	16200	780	1840	1200	1360	220	85	57
15	69	764	11500	620	16100	880	1910	1140	1230	200	74	60
16	67	610	10600	600	14600	4470	1960	1070	1150	180	69	67
17	67	498	9140	580	12900	8280	2150	1000	1030	170	68	64
18	67	423	7200	560	11000	8810	2430	931	924	150	61	61
19	61	383	5050	540	9620	9170	2560	912	869	150	61	60
20	63	366	3340	540	8360	11400	2540	1860	773	150	62	56
21	70	399	2900	540	7170	13000	2930	5690	705	145	61	54
22	260	507	3300	530	6050	13800	3090	8420	722	145	58	54
23	1420	686	2900	520	5040	13600	4810	10800	1050	145	57	53
24	2350	983	2500	520	4200	12600	6070	11000	1600	150	67	51
25	2440	1420	2200	540	3490	11500	5900	10400	1730	135	65	48
26	1810	1460	1900	560	2830	11600	5160	11400	1280	120	62	41
27	1110	1200	1600	600	2310	11200	4220	13200	982	140	59	45
28	710	2460	1350	660	1650	11900	3430	14700	791	140	58	47
29	492	3850	1250	700	1270	11200	2870	14700	640	153	59	47
30	376	4130	1200	840	---	9530	2370	12900	528	148	51	53
31	304	---	1100	780	---	7970	---	10700	---	137	54	---
TOTAL	12478	25188	131320	21490	164460	187360	98290	153603	61204	7231	2486	1581
MEAN	403	840	4236	693	5671	6044	3276	4955	2040	233	80.2	52.7
MAX	2440	4130	11500	1000	16200	13800	6100	14700	8700	484	118	67
MIN	36	143	1100	520	760	720	1810	912	528	120	51	40
CFSM	.19	.40	2.03	.33	2.71	2.89	1.57	2.37	.98	.11	.04	.03
IN.	.22	.45	2.34	.38	2.93	3.33	1.75	2.73	1.09	.13	.04	.03

CAL YR 1983	TOTAL	751167	MEAN	2058	MAX	13600	MIN	36	CFSM	.98	IN.	13.36
WTR YR 1984	TOTAL	866691	MEAN	2368	MAX	16200	MIN	36	CFSM	1.13	IN.	15.42

05526000 IROQUOIS RIVER NEAR CHEBANSE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site FL 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
NOV												
09...	1200	17002	17002	150	721	7.7	11.0	2.7	8.6	23	340	--
JAN												
04...	1300	17002	17002	E900	679	7.0	.0	1.0	8.7	9	390	--
APR												
11...	1200	17002	17002	2000	600	7.8	10.0	3.0	10.3	9	K50	320
MAY												
03...	1100	17002	17002	1650	618	7.4	13.0	3.0	9.8	10	300	390
29...	1200	17002	17002	14600	322	7.0	15.0	28	7.6	39	--	140
JUN												
20...	1400	17002	17002	797	650	7.9	26.0	3.8	6.7	17	K130	330
JUL												
18...	1300	17002	17002	145	634	8.1	26.0	6.2	8.2	24	<10	320
AUG												
15...	1300	17002	17002	76	647	8.2	28.0	11	7.8	18	K10	310
SEP												
11...	1300	17002	17002	51	587	7.8	25.5	4.0	8.1	13	K80	310

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV												
09...	99	--	34	--	19	--	4.2	--	39	7	4.3	.150
JAN												
04...	94	--	32	--	11	--	1.9	--	1	0	6.6	.100
APR												
11...	81	80	29	29	7.3	7.6	1.6	1.4	36	4	8.7	<.100
MAY												
03...	93	92	41	40	9.4	9.3	1.9	1.8	30	5	8.5	<.100
29...	43	34	16	13	3.1	2.9	2.1	1.6	232	52	6.7	<.100
JUN												
20...	85	82	32	30	11	11	2.3	1.6	82	15	7.0	<.100
JUL												
18...	79	77	31	30	17	17	2.1	1.9	45	10	2.9	<.100
AUG												
15...	79	74	32	30	22	22	3.0	2.5	54	8	.45	<.100
SEP												
11...	80	79	27	27	11	11	2.2	2.2	25	5	.57	<.100

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05526000 IROQUOIS RIVER NEAR CHEBANSE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
NOV 09...	.002	--	--	1100	--	73	--	<1	--	120	--	<3
JAN 04...	<.001	--	--	98	--	54	--	<2	--	71	--	3
APR 11...	<.001	.060	.020	750	<50	47	40	<1	<1	<50	<50	<3
MAY 03...	<.001	.070	.030	700	<50	50	43	<1	<.5	<50	<50	3
29...	<.001	.400	.110	2800	58	99	24	<1	<.5	<50	<50	<3
JUN 20...	<.005	.130	.060	2700	<50	77	56	<1	<.5	81	74	4
JUL 18...	<.008	.080	.040	710	<50	63	53	<1	<.5	110	100	<3
AUG 15...	<.011	.120	.040	1400	<50	81	64	<1	<.5	170	160	<3
SEP 11...	<.004	.060	.020	260	--	52	46	<1	<.5	58	60	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
NOV 09...	--	<5	--	<5	--	<5	--	1400	--	<50	--	71
JAN 04...	--	13	--	<5	--	<5	--	150	--	<50	--	61
APR 11...	<3	6	<5	<5	<5	<5	<5	1100	<50	<50	<50	44
MAY 03...	<3	<5	<5	<5	<5	<5	<5	1100	60	<50	<50	51
29...	<3	5	<5	<5	<5	--	<5	1800	70	<50	<50	110
JUN 20...	<3	8	10	10	<5	<5	<5	2700	<50	<50	<50	88
JUL 18...	<3	<5	<5	<5	<5	<5	<5	780	<50	<50	<50	50
AUG 15...	<3	14	<5	10	<5	5	<5	1600	<50	<100	<50	120
SEP 11...	<3	<5	<5	<5	<5	<5	<5	780	<50	<50	<50	110

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 09...	--	--	<5	--	<3	--	300	--	<5	--	<50	--
JAN 04...	--	--	16	--	<3	--	220	--	<5	--	140	--
APR 11...	13	--	<5	<5	<3	<3	180	180	<5	<5	<50	<50
MAY 03...	11	--	<5	<5	<3	<3	190	190	<5	<5	<50	<50
29...	<5	--	7	<5	<3	<3	97	77	6	<5	<50	<50
JUN 20...	<5	--	16	12	3	4	240	230	8	5	<50	<50
JUL 18...	<5	--	<5	<5	<3	<3	250	240	<5	<5	<50	<50
AUG 15...	10	--	17	<5	7	<3	280	260	11	<5	<50	<50
SEP 11...	41	<.1	<5	<5	<3	<3	140	140	<5	<5	<50	<50

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL

LOCATION.--Lat 41°20'48", long 88°11'11", in NW¼NW¼ sec.15, T.33 N., R.9 E., Will County, Hydrologic Unit 07120001, on right bank, 0.4 mi downstream from Prairie Creek, 0.5 mi upstream from bridge on Interstate 55, 5 mi downstream from Wilmington, and at mile 5.7.

DRAINAGE AREA.--5,150 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-83-2: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 510.86 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Slight diurnal fluctuation at low flow caused by powerplants above station. U.S. Geological Survey gage-height telemeter at station.

AVERAGE DISCHARGE.--51 years, 4,271 ft³/s, 11.26 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,900 ft³/s July 13, 1957, gage height, 11.40 ft; maximum gage height, 13.88 ft Jan. 30, 1968, ice jam; minimum discharge, 204 ft³/s Aug. 1, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods in 1883, 1887 reached a stage of 16.73 ft, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,500 ft³/s Feb. 14, gage height, 7.06 ft; minimum daily, 615 ft³/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	710	1320	7300	4400	2300	5520	14200	7700	17500	4360	1880	698
2	706	1260	6620	3800	2300	5250	12100	7200	14300	4020	1790	708
3	776	1240	5350	3400	2300	5280	10700	6760	11700	3700	1690	692
4	710	1180	4500	3100	2300	5390	10400	6500	9910	3480	1700	700
5	684	1160	4110	2900	2400	5420	10300	6330	8590	3290	1670	777
6	615	1150	4810	2700	2500	5310	10000	6310	7670	3120	1660	759
7	650	1160	7000	2600	2600	5130	9540	6390	6910	3040	1660	743
8	648	1170	7910	2500	2700	4830	8840	6150	6240	2870	1680	763
9	643	1160	7810	2400	2800	4460	8140	5900	6670	2900	1590	870
10	910	1220	7200	2200	3000	4340	7530	5620	7370	2800	1700	835
11	1050	1360	7500	2100	4000	4210	7030	5360	6970	2930	1860	765
12	1040	1600	16500	2100	17000	4170	6800	5160	6320	3070	1580	766
13	1030	2130	19000	2000	25000	3800	6920	5010	5720	2960	1450	929
14	1020	2380	20100	2000	33300	4020	7020	4880	6850	2810	1370	950
15	1010	2150	22600	1900	31700	4230	6970	4760	5680	2700	1320	877
16	997	1910	20400	1900	27600	11600	7020	4670	5190	2590	1280	870
17	1060	1830	17700	1800	24400	15600	7650	4600	4980	2420	1230	891
18	1090	1760	15300	1800	21400	15800	7870	4600	4770	2290	1160	896
19	1070	1740	18900	1700	19800	16000	7930	4640	4590	2220	1130	872
20	1100	1810	20000	1700	17700	24000	7840	5230	4370	2200	1110	838
21	1150	1810	17000	1600	15800	28400	7600	9100	4150	2030	1120	850
22	1280	1840	14000	1600	14200	27700	8020	13700	4210	1920	1070	841
23	1530	2480	13000	1600	12600	27000	11700	24100	5110	1860	1040	878
24	3450	2890	12000	1600	11200	25900	13200	23200	5210	1850	1030	861
25	4180	3180	10000	1700	9990	24000	13100	20300	5440	1850	1050	837
26	3890	3450	9000	1700	8860	24300	12200	21300	5290	1830	993	855
27	2990	3400	8000	1800	7930	22900	11100	22500	5040	1910	885	867
28	2250	5460	7000	1900	6900	23600	10000	25100	4870	1990	880	888
29	1860	7350	6200	2000	6000	22000	9130	28400	4690	1990	870	916
30	1610	7650	5600	2200	---	19400	8410	25000	4550	1980	805	961
31	1440	---	5000	2400	---	16800	---	21100	---	1940	747	---
TOTAL	43449	70200	347410	69100	340580	416360	279260	347570	200860	80920	41000	24953
MEAN	1402	2340	11210	2229	11740	13430	9309	11210	6695	2610	1323	832
MAX	4180	7650	22600	4400	33300	28400	14200	28400	17500	4360	1880	961
MIN	615	1150	4110	1600	2300	3800	6800	4600	4150	1830	747	692
CFSM	.27	.45	2.18	.43	2.28	2.61	1.81	2.18	1.30	.51	.26	.16
IN.	.31	.51	2.51	.50	2.46	3.01	2.02	2.51	1.45	.58	.30	.18

CAL YR 1983	TOTAL	2128889	MEAN	5833	MAX	30500	MIN	615	CFSM 1.13	IN.	15.38
WTR YR 1984	TOTAL	2261662	MEAN	6179	MAX	33300	MIN	615	CFSM 1.20	IN.	16.34

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05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site F 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
14...	1200	17002	17002	1050	603	8.0	12.0	4.0	12.5	7	73
14...	1230	81700	17002	1050	603	8.0	12.0	--	12.5	12	70
NOV											
30...	1330	81700	17002	7650	590	8.1	3.5	--	12.0	57	--
JAN											
10...	1500	81700	17002	E2200	655	7.4	.5	--	13.2	37	1600
FEB											
23...	1100	81700	17002	12800	565	8.4	6.5	--	11.7	21	290
APR											
04...	1000	81700	17002	10700	585	7.3	6.0	10	11.8	12	970
04...	1005	17002	17002	10700	585	7.5	6.0	13	11.8	12	910
MAY											
14...	1300	81700	17002	4900	610	8.5	17.0	--	13.6	14	K20
JUN											
11...	1000	81700	17002	7050	630	7.8	21.5	--	8.3	26	1100
JUL											
26...	1100	81700	17002	1870	625	8.1	24.0	--	7.2	12	90
SEP											
04...	1300	81700	17002	703	605	8.0	22.5	22	9.7	16	K20

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
14...	330	140	.00	85	83	30	30	18	17	2.7	2.5
14...	330	130	.00	84	83	30	29	17	17	2.6	2.6
NOV											
30...	280	140	.00	80	71	29	26	11	11	3.4	2.8
JAN											
10...	350	160	.00	97	90	33	31	15	15	2.8	2.3
FEB											
23...	290	140	.00	78	75	25	25	9.5	9.5	2.4	2.3
APR											
04...	310	140	.00	83	81	28	27	7.9	7.8	2.6	2.5
04...	300	130	.00	81	79	27	26	7.6	7.7	2.5	2.4
MAY											
14...	400	220	.00	93	93	41	41	11	11	1.7	1.7
JUN											
11...	310	140	.00	76	78	28	27	11	12	3.1	2.2
JUL											
26...	310	19	.00	77	76	29	28	16	16	2.2	2.1
SEP											
04...	--	--	.00	79	--	30	--	22	--	2.8	--

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

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05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
14...	196	89	26	.2	9	3	.70	.000	<.001	1.0	1.0
14...	194	99	25	.2	11	3	.77	<.100	<.002	--	.40
NOV											
30...	140	74	25	.2	159	25	6.0	<.100	<.001	--	1.8
JAN											
10...	198	120	26	.2	216	46	3.5	.180	<.001	1.9	2.1
FEB											
23...	155	80	25	.2	9	6	7.3	.100	.004	.80	.90
APR											
04...	172	83	27	.2	38	9	5.6	.070	<.001	.79	.86
04...	176	81	23	.2	34	9	5.6	.060	<.001	.70	.76
MAY											
14...	186	95	23	.2	12	5	3.5	<.100	<.010	--	.80
JUN											
11...	163	79	22	.2	204	34	6.1	<.100	<.003	--	1.4
JUL											
26...	287	91	36	.2	18	3	.64	<.100	<.007	--	.50
SEP											
04...	180	110	28	.2	36	28	.53	<.100	<.005	--	.70

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT										
14...	1.7	.060	.070	270	85	1	40	37	<1	<.5
14...	1.2	.430	.030	310	260	1	39	37	<1	<.5
NOV										
30...	7.8	.260	.110	2300	96	1	72	40	<1	<.5
JAN										
10...	5.6	.340	--	3600	59	1	93	47	<2	<2
FEB										
23...	8.2	.080	.040	590	64	<1	47	40	<2	<2
APR										
04...	6.5	.060	.040	570	57	2	47	40	<1	<.5
04...	6.4	.060	.040	510	<50	2	45	38	<1	<.5
MAY										
14...	4.3	.040	.020	190	75	<1	45	43	<1	<.5
JUN										
11...	7.5	.220	.060	4400	85	4	84	50	<1	<2
JUL										
26...	1.1	.060	.050	390	<50	2	51	48	<1	<1
SEP										
04...	1.2	<.010	<.010	430	--	3	59	--	<1	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT										
14...	68	70	<3	<3	<5	<5	<5	<5	<5	<5
14...	78	77	<3	<3	<5	<5	<5	<5	<5	<5
NOV										
30...	74	69	4	<3	7	<5	6	<5	11	31
JAN										
10...	65	72	<3	<3	9	<5	<5	<5	11	<5
FEB										
23...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
APR										
04...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
04...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
MAY										
14...	56	53	<3	<3	<5	<5	<5	<5	<5	<5
JUN										
11...	78	70	<3	<3	<5	<5	<5	<5	<5	<5
JUL										
26...	67	67	<3	<3	<5	<5	<5	<5	<5	<5
SEP										
04...	86	--	<3	--	<5	--	<5	--	<5	--

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT										
14...	270	<50	<50	<50	35	<5	<.1	6	6	<3
14...	310	<50	<50	<50	35	<5	<.1	5	<5	<3
NOV										
30...	4000	<50	<50	<50	200	<5	<.1	11	7	<3
JAN										
10...	6700	<50	<50	<50	940	27	<.1	9	<5	<3
FEB										
23...	1000	<50	<50	<50	68	18	<.1	<5	<5	<3
APR										
04...	1100	<50	<50	<50	65	12	<.1	<5	<5	<3
04...	1000	<50	<50	<50	62	11	<.1	<5	<5	<3
MAY										
14...	410	67	<50	<50	33	6	<.1	<5	<5	<3
JUN										
11...	5100	<50	<100	<50	180	<5	<.1	17	<5	<3
JUL										
26...	460	<50	<50	<50	56	<5	.1	<5	<5	<3
SEP										
04...	600	--	<50	--	110	--	<.1	<5	--	<3

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT										
14...	<3	130	130	<5	<5	100	120	.00	<1	0
14...	<3	130	130	<5	<5	170	<100	.01	<5	1
NOV										
30...	<3	170	160	7	<5	<100	<100	<.01	<5	1
JAN										
10...	<3	180	170	7	<5	<100	<100	<.01	<5	1
FEB										
23...	<3	150	140	<5	<5	110	<100	<.01	<5	0
APR										
04...	<3	150	140	<5	<5	<50	<50	.00	<1	0
04...	<3	140	140	<5	<5	<50	<50	.00	<1	0
MAY										
14...	<3	160	160	<5	<5	<100	110	<.01	<5	1
JUN										
11...	<3	170	170	<5	<5	<100	<50	<.01	<5	0
JUL										
26...	<3	150	150	<5	<5	<50	<50	<.01	<5	0
SEP										
04...	--	160	--	<5	--	<50	--	<.01	<5	1

05527800 DES PLAINES RIVER AT RUSSELL, IL

LOCATION.--Lat 42°29'22", long 87°55'32", in SE¼ sec.3, T.46 N., R.11 E., Lake County, Hydrologic Unit 07120004, on right bank at upstream side of Russell Road bridge, 0.3 mi west of Russell, 7.2 mi upstream from Mill Creek, and at mile 109.3.

DRAINAGE AREA.--123 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-63, and annual maximum, water years 1962-66. June 1967 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-76-1: 1960-68(M), 1973(M).

GAGE.--Water-stage recorder. Datum of gage is 662.00 ft National Geodetic Vertical Datum of 1929. Oct. 17, 1961, to June 29, 1967, crest-stage gage at left downstream side of bridge at datum 4.29 ft higher.

REMARKS.--Water-discharge records fair except those for winter periods and those for periods of no gage-height record, Nov. 24 to Jan. 6 and Feb. 13 to Mar. 8, which are poor.

AVERAGE DISCHARGE.--17 years, 98.0 ft³/s, 10.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s Mar. 21, 1979, gage height, 9.69 ft; maximum gage height, 10.75 ft Mar. 6, 1976; no flow at times during several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 597 ft³/s Feb. 20, gage height, 7.43 ft; minimum daily, 2.3 ft³/s Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	21	260	29	17	120	182	355	299	56	8.1	4.6
2	2.3	23	250	28	18	100	151	334	293	42	7.7	4.9
3	3.0	23	240	29	18	84	131	322	269	32	8.6	4.9
4	2.9	21	230	30	18	72	129	315	236	26	8.4	4.6
5	3.0	19	220	29	19	62	136	295	198	24	7.9	4.0
6	4.0	18	200	28	18	52	140	270	149	20	7.3	4.2
7	5.1	16	180	27	18	45	133	243	115	18	30	5.4
8	4.9	15	160	27	17	41	121	214	113	17	125	5.8
9	4.7	14	140	26	18	39	109	181	124	15	166	5.9
10	5.3	14	110	26	18	35	96	147	128	16	176	5.6
11	5.4	14	140	25	20	32	86	119	107	92	145	5.2
12	7.5	15	200	25	60	30	82	99	79	171	76	4.7
13	11	15	250	24	220	29	116	85	59	206	32	4.7
14	12	14	280	23	320	28	147	77	50	222	20	4.7
15	11	15	300	23	420	36	163	69	43	215	16	4.9
16	9.6	15	320	22	460	97	184	59	36	177	14	5.0
17	7.9	17	300	22	500	113	211	52	34	106	12	5.0
18	6.6	18	280	21	520	141	236	45	38	49	11	4.9
19	5.7	20	260	20	540	145	255	43	48	30	10	4.7
20	5.4	36	230	20	560	161	263	43	45	22	9.2	3.9
21	5.6	57	200	19	540	189	253	42	33	19	8.1	3.1
22	11	64	170	18	500	221	257	42	68	17	8.7	3.0
23	53	80	130	18	450	245	368	58	189	14	8.3	3.1
24	84	110	94	18	390	258	459	62	220	13	7.6	3.0
25	86	150	70	18	330	268	522	66	223	11	7.1	6.1
26	64	140	52	18	260	272	552	97	209	11	6.7	19
27	51	170	44	18	190	267	547	126	176	13	6.3	23
28	39	200	40	18	160	256	494	159	142	14	6.0	15
29	29	270	37	18	140	241	422	219	100	13	5.9	12
30	23	270	34	18	---	222	393	252	74	11	5.2	9.9
31	19	---	32	18	---	196	---	284	---	9.2	3.9	---
TOTAL	584.3	1874	5453	703	6759	4097	7338	4774	3905	1701.2	964.0	194.8
MEAN	18.8	62.5	176	22.7	233	132	245	154	130	54.9	31.1	6.49
MAX	86	270	320	30	560	272	552	355	299	222	176	23
MIN	2.3	14	32	18	17	28	82	42	33	9.2	3.9	3.0
CFSM	.15	.51	1.43	.18	1.89	1.07	1.99	1.25	1.06	.45	.25	.05
IN.	.18	.57	1.65	.21	2.04	1.24	2.22	1.44	1.18	.51	.29	.06

CAL YR 1983 TOTAL 44216.1 MEAN 121 MAX 1590 MIN 1.9 CFSM .98 IN. 13.37
WTR YR 1984 TOTAL 38347.3 MEAN 105 MAX 560 MIN 2.3 CFSM .85 IN. 11.60

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05527800 DES PLAINES RIVER AT RUSSELL, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1959-60, 1964-69, 1971-77 are published in Water-Resources Investigations 78-22 and 79-23 as site G 08.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
17...	0830	17002	17002	7.4	1140	7.7	12.5	32	6.8	31	340	490
31...	0730	17002	17002	18	1140	8.3	12.0	28	10.1	24	360	570
DEC												
13...	0830	17002	17002	230	559	7.5	1.5	27	14.3	21	2400	260
JAN												
10...	0900	17002	17002	26	1030	7.2	.5	3.0	9.5	11	180	500
FEB												
06...	0830	17002	17002	18	1740	7.4	.0	2.0	11.0	21	220	510
MAR												
19...	0730	17002	17002	153	779	7.6	.0	8.0	10.0	22	320	330
MAY												
07...	0730	17002	17002	247	684	7.3	14.5	6.0	6.7	22	18	400
JUN												
11...	0800	17002	17002	110	874	7.2	21.5	18	11.6	31	180	410
JUL												
17...	0830	17002	17002	77	880	7.0	23.0	--	7.0	34	170	370
SEP												
04...	0730	17002	17002	5.1	1160	7.8	14.5	71	8.0	41	510	530

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT												
17...	110	110	55	54	72	76	7.6	7.6	--	--	--	73
31...	130	130	63	63	47	45	5.1	5.1	220	.4	754	35
DEC												
13...	59	57	29	28	29	30	4.9	4.5	--	--	--	24
JAN												
10...	110	110	57	55	46	46	3.5	3.3	--	--	--	1
FEB												
06...	110	110	56	56	130	130	4.2	4.1	180	.3	1040	3
MAR												
19...	79	71	40	37	31	28	4.5	3.9	--	--	--	12
MAY												
07...	87	86	46	45	23	22	3.0	2.6	--	--	--	14
JUN												
11...	90	89	47	46	26	27	3.9	3.8	--	--	--	34
JUL												
17...	84	81	41	40	26	27	3.4	3.1	--	--	--	--
SEP												
04...	120	120	58	59	45	44	4.8	4.5	--	--	--	93

05527800 DES PLAINES RIVER AT RUSSELL, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)
OCT												
17...	15	.70	.610	.007	--	--	--	.210	.120	1400	110	--
31...	12	1.9	.230	.010	2.8	3.0	4.9	.140	.170	--	--	--
DEC												
13...	5	5.6	.090	<.001	--	--	--	.230	.230	1200	140	--
JAN												
10...	1	3.4	.410	<.001	--	--	--	.110	.110	160	63	--
FEB												
06...	2	2.5	.570	.001	.73	1.3	3.8	.120	.100	170	53	<1
MAR												
19...	8	4.1	.380	.001	--	--	--	.160	.140	300	<50	--
MAY												
07...	1	3.0	.070	<.001	--	--	--	.060	.020	230	<50	--
JUN												
11...	17	4.1	.130	<.001	--	--	--	.150	.120	1100	<50	--
JUL												
17...	--	2.0	.210	.001	--	--	--	.200	.140	860	<50	--
SEP												
04...	20	.00	.030	<.001	--	--	--	.290	.130	2300	52	--

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT												
17...	59	51	<1	<1	180	170	<3	<3	6	<5	7	<5
31...	53	49	<2	<1	120	120	<3	<3	<5	13	8	<5
DEC												
13...	38	30	<1	<1	<50	<50	<3	<3	7	7	<5	<5
JAN												
10...	46	43	<1	<2	89	88	<3	<3	<5	<5	<5	<5
FEB												
06...	53	50	<1	<2	99	99	<3	<3	<5	<5	<5	<5
MAR												
19...	35	30	<1	<1	58	57	<3	<3	<5	<5	<5	<5
MAY												
07...	33	30	<1	<.5	70	67	<3	<3	<5	<5	<5	<5
JUN												
11...	51	44	<1	<1	140	140	<3	<3	14	5	<5	<5
JUL												
17...	52	43	<1	<1	110	110	<3	<3	<5	6	<5	<5
SEP												
04...	78	65	<1	<.5	220	220	<3	3	<5	<5	<5	<5

05527800 DES PLAINES RIVER AT RUSSELL, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT											
17...	6	<5	2000	<50	<100	<50	100	56	--	14	7
31...	7	9	980	<50	<50	<50	74	54	<.1	19	25
DEC											
13...	--	--	1200	110	<50	<50	26	13	--	6	11
JAN											
10...	<5	<5	130	<50	<50	<50	47	44	--	<5	<5
FEB											
06...	<5	<5	360	<50	<50	<50	70	66	<.1	<5	<5
MAR											
19...	6	<5	470	<50	<50	<50	25	17	--	<5	<5
MAY											
07...	<5	<5	380	94	<50	<50	20	16	--	<5	<5
JUN											
11...	8	<5	1300	<50	<50	<50	100	69	--	5	<5
JUL											
17...	<5	<5	1300	91	<50	<50	140	98	--	<5	8
SEP											
04...	<5	<5	2000	<50	<50	<50	200	97	--	<5	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT											
17...	<3	<3	1600	1600	7	<5	--	--	.00	--	0
31...	<3	<3	1000	1000	<5	<5	120	<100	.00	<1	0
DEC											
13...	<3	<3	220	210	<5	<5	<50	<50	.00	--	--
JAN											
10...	<3	<3	680	670	<5	<5	<50	<100	.00	--	--
FEB											
06...	<3	<3	1100	1000	<5	<5	<100	<100	.00	<1	1
MAR											
19...	<3	<3	360	320	<5	<5	<100	<100	.01	--	--
MAY											
07...	<3	<3	280	270	<5	<5	--	--	.00	--	1
JUN											
11...	<3	<3	460	450	5	<5	<100	<100	.00	--	--
JUL											
17...	--	<3	410	400	<5	<5	<50	<50	--	--	1
SEP											
04...	<3	<3	1300	1300	<5	<5	<50	<50	.00	--	--

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05528000 DES PLAINES RIVER NEAR GURNEE, IL

LOCATION.--Lat 42°20'39", long 87°56'18", in SE¼SW¼ sec.27, T.45 N., R.11 E., Lake County, Hydrologic Unit 07120004, on left bank 800 ft upstream from bridge on State Highway 120, 2.5 mi southwest of Gurnee, and at mile 94.2.

DRAINAGE AREA.--232 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to September 1958, and annual maximum, water years 1960-68, October 1968 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-76-1: 1960(M), 1962(M). WDR IL-77-1: 1971.

GAGE.--Water-stage recorder. Datum of gage is 650.30 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to May 26, 1946, nonrecording gage at site 825 ft downstream at same datum. May 27, 1946, to Sept. 30, 1958, water-stage recorder at site 800 ft downstream at same datum. Dec. 17, 1959, to September 1968, crest-stage gage at site 800 ft downstream at same datum.

REMARKS.--Water-discharge records good. Effluent from sewage treatment plants 0.5 mi upstream averaged about 47 ft^3/s per day.

AVERAGE DISCHARGE.--29 years (water years 1946-58, 1969-84), 177 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,070 ft^3/s Apr. 3, 1960, gage height, 10.64 ft; no flow Sept. 26 to Oct. 19, 1956, and part of each day Aug. 27-30, Sept. 1, 2, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft^3/s Feb. 19, gage height, 6.76 ft; minimum daily, 36 ft^3/s Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	91	521	125	80	358	430	810	499	149	52	43
2	36	108	501	123	82	315	386	741	491	120	52	40
3	38	104	480	124	85	272	348	682	479	105	48	41
4	52	96	461	125	84	237	352	666	457	92	48	42
5	42	89	444	124	85	212	354	630	415	85	46	42
6	37	84	422	123	84	187	347	594	371	80	49	42
7	37	81	372	120	83	159	330	553	346	73	144	47
8	42	78	316	118	78	158	312	499	277	67	194	47
9	39	71	274	116	78	139	293	450	238	67	218	48
10	38	74	227	114	80	144	270	399	228	70	233	46
11	41	77	312	110	90	133	245	345	222	178	231	44
12	65	74	480	107	182	127	260	297	200	228	199	43
13	68	71	529	104	527	124	334	266	181	257	126	51
14	63	70	575	101	671	127	344	245	156	268	85	55
15	59	69	637	98	802	164	370	226	137	271	71	54
16	55	77	661	98	901	273	427	204	126	270	62	41
17	53	76	611	96	975	286	479	185	120	246	63	43
18	51	74	557	93	1000	277	503	172	129	180	55	41
19	50	87	509	91	1050	294	509	180	129	109	52	42
20	51	113	480	88	1010	403	507	178	125	87	52	43
21	52	138	471	83	930	464	503	171	120	75	51	40
22	144	155	429	79	851	509	660	228	245	68	50	38
23	190	282	370	78	786	522	863	261	311	66	50	39
24	186	331	355	79	732	548	936	239	360	61	48	41
25	184	344	288	80	678	572	917	261	366	60	46	123
26	175	341	217	81	622	578	895	280	345	60	44	83
27	145	357	180	82	563	571	878	283	324	58	46	78
28	129	522	162	83	500	559	849	361	289	58	48	75
29	119	552	151	81	411	544	812	458	248	57	46	61
30	95	550	142	82	---	511	862	497	196	55	45	51
31	84	---	133	81	---	472	---	504	---	52	42	---
TOTAL	2457	5236	12267	3087	14100	10239	15575	11865	8130	3672	2596	1524
MEAN	79.3	175	396	99.6	486	330	519	383	271	118	83.7	50.8
MAX	190	552	661	125	1050	578	936	810	499	271	233	123
MIN	36	69	133	78	78	124	245	171	120	52	42	38

CAL YR 1983 TOTAL 103201 MEAN 283 MAX 2350 MIN 35
WTR YR 1984 TOTAL 90748 MEAN 248 MAX 1050 MIN 36

05528000 DES PLAINES RIVER NEAR GURNEE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year. Additional chemical data for water year 1959-61, 1972-77 are published in Water-Resources Investigations 78-22 and 79-23 as site G 07.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
NOV												
03...	0800	17002	17002	101	932	6.3	13.0	17	12.3	25	<10	390
09...	1115	81700	17002	69	1040	8.2	14.0	--	8.1	41	9	380
DEC												
22...	1100	81700	17002	427	905	7.4	1.0	--	12.5	25	<10	430
FEB												
08...	1030	81700	17002	69	1250	7.6	3.5	--	12.0	21	<5	420
MAR												
21...	1000	81700	17002	450	820	7.5	1.5	--	12.7	21	54	470
MAY												
03...	1030	81700	17002	680	682	8.4	9.5	--	9.3	84	150	380
JUN												
14...	1100	81700	17002	152	907	7.8	22.5	--	5.5	180	220	390
AUG												
02...	1200	81700	17002	45	1000	7.7	23.5	--	6.9	88	78	330
29...	1245	81700	17002	39	970	7.5	26.5	--	7.0	50	190	320

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
NOV												
03...	92	88	42	40	71	70	6.6	6.1	140	--	.5	634
09...	88	87	40	40	81	82	7.2	7.1	130	94	--	--
DEC												
22...	91	95	45	47	48	50	4.5	4.8	100	82	--	--
FEB												
08...	96	97	43	44	110	110	6.6	6.7	150	160	.6	750
MAR												
21...	110	110	50	50	210	210	9.2	9.2	72	110	--	--
MAY												
03...	83	82	43	42	34	35	3.1	3.1	68	59	--	--
JUN												
14...	90	87	43	41	60	58	5.1	4.5	89	81	--	--
AUG												
02...	82	80	33	32	100	100	9.3	9.1	110	110	--	--
29...	78	78	31	31	98	97	9.3	9.4	110	100	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
NOV												
03...	34	11	4.40	.650	<.001	2.2	2.8	7.2	.660	.660	590	<50
09...	26	7	5.60	1.10	.045	--	--	--	1.20	1.10	460	<50
DEC												
22...	8	3	6.10	.590	.001	--	--	--	.240	.200	230	120
FEB												
08...	12	2	5.80	2.60	.012	1.0	3.6	9.4	.240	.240	150	<50
MAR												
21...	8	5	3.40	.240	<.001	--	--	--	.150	.110	130	<50
MAY												
03...	12	8	3.20	.250	.011	--	--	--	.100	.049	490	55
JUN												
14...	78	15	4.10	.860	.026	--	--	--	.400	.330	2900	110
AUG												
02...	47	10	9.00	.200	.005	--	--	--	.740	.540	1200	120
29...	36	11	9.30	.140	.003	--	--	--	2.20	2.11	640	57

05528000 DES PLAINES RIVER NEAR GURNEE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)
NOV												
03...	6	42	37	<1	<1	260	260	<3	<3	<5	<5	<5
09...	--	41	38	<1	<1	300	310	<3	<3	<5	<5	<5
DEC												
22...	--	41	44	<2	<2	110	110	<3	<3	28	6	<5
FEB												
08...	--	40	39	<1	<.5	250	260	<3	<3	<5	<5	<5
MAR												
21...	--	49	45	<1	<.5	350	360	<3	<3	<5	<5	<5
MAY												
03...	--	30	29	<1	<.5	94	91	<3	<3	<5	<5	<5
JUN												
14...	--	59	41	<2	<2	190	190	4	<3	7	8	<5
AUG												
02...	--	38	36	<1	<.5	380	380	<3	<3	<5	<5	<5
29...	--	31	29	<1	<.5	450	460	4	<3	10	8	<5

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
NOV												
03...	<5	5	7	1000	<50	<50	<50	89	52	<.1	7	<5
09...	<5	<5	7	940	<50	<50	<50	100	71	--	<5	<5
DEC												
22...	<5	<5	5	390	<50	<50	<50	19	13	--	26	<5
FEB												
08...	<5	<5	<5	310	<50	<50	<50	97	95	<.1	<5	<5
MAR												
21...	<5	6	<5	530	<50	<50	<50	55	45	--	<5	<5
MAY												
03...	<5	<5	<5	660	110	<50	<50	29	15	--	<5	<5
JUN												
14...	<5	8	<5	3300	<50	<50	<50	230	78	--	7	<5
AUG												
02...	<5	14	11	1300	<50	<50	<50	110	55	--	11	6
29...	<5	11	13	870	57	<50	<50	110	77	--	13	8

DATE	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, TOTAL (UG/L AS V) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) (00556)
NOV											
03...	<3	<3	540	510	<5	<5	<100	120	.01	<1	1
09...	<3	<3	600	600	<5	<5	<100	<100	.01	--	2
DEC											
22...	<3	<3	310	330	<5	<5	<50	<50	<.01	--	<1
FEB											
08...	<3	<3	640	650	<5	<5	<50	<50	.01	<1	1
MAR											
21...	<3	<3	690	700	<5	<5	<100	<50	.00	--	0
MAY											
03...	<3	<3	210	210	<5	<5	<50	<50	.00	--	3
JUN											
14...	<3	<3	440	430	<5	<5	110	<50	.00	--	2
AUG											
02...	<3	<3	660	650	<5	<5	<100	<50	.00	--	2
29...	<3	<3	780	790	<5	<5	<50	<100	.01	--	2

05528500 BUFFALO CREEK NEAR WHEELING, IL

LOCATION.--Lat 42°09'05", long 87°57'25", in NE¼NW¼ sec.4, T.42 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at downstream side of bridge on Buffalo Grove Road, 1.0 mi downstream from unnamed tributary, 2.5 mi west of Wheeling, and at mile 5.0.

DRAINAGE AREA.--19.6 mi².

PERIOD OF RECORD.--August 1952 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 658.60 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark).

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--32 years, 17.1 ft³/s, 11.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 887 ft³/s July 22, 1982, gage height, 7.94 ft; no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 22	1815	*382	*5.86	Dec. 11	1630	227	4.70
Nov. 23	1015	242	4.83	Feb. 13	0600	323	5.55
Nov. 27	2100	277	5.13				

Minimum daily discharge, 0.41 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	19	50	11	3.7	15	21	65	35	3.8	.90	.55
2	1.6	20	37	11	4.0	11	16	52	23	3.4	.90	.63
3	1.3	16	29	9.8	4.2	9.7	20	40	17	3.2	.72	.55
4	3.8	15	24	9.7	3.9	12	48	30	14	3.2	1.3	1.1
5	2.0	13	24	9.5	3.8	10	33	26	12	3.0	1.0	1.1
6	1.7	10	30	9.0	3.8	6.0	25	23	14	3.6	.90	.63
7	1.1	9.3	25	8.4	3.8	5.4	22	21	14	2.7	8.6	.78
8	3.7	8.6	21	8.0	3.8	5.2	18	17	15	2.4	4.1	3.4
9	2.0	7.8	20	7.8	3.8	4.8	19	15	14	2.4	6.5	3.2
10	1.4	7.8	19	7.4	4.6	4.6	16	13	13	8.0	6.5	1.2
11	1.4	8.4	110	7.0	8.0	4.3	14	13	11	60	2.9	.94
12	10	7.8	157	6.4	100	7.0	22	13	8.3	13	1.7	.83
13	7.1	7.8	116	6.0	215	15	38	15	9.1	8.0	2.4	20
14	5.7	6.7	118	5.6	117	9.4	49	13	9.1	5.2	1.6	15
15	4.6	6.8	99	5.2	95	20	40	12	8.8	3.4	2.0	2.5
16	3.6	8.3	71	4.7	84	23	51	11	7.8	2.6	1.1	1.9
17	3.0	6.7	45	4.3	56	16	69	10	8.8	2.1	2.4	1.6
18	2.6	6.7	32	4.0	59	8.3	63	13	12	2.0	1.2	1.9
19	2.7	20	25	4.0	70	23	49	19	8.8	1.6	.81	1.4
20	4.8	37	21	3.9	67	99	34	15	7.5	1.6	.72	2.1
21	6.2	26	19	3.8	52	115	25	13	6.0	1.6	.72	1.4
22	154	21	18	3.8	38	56	98	44	7.8	2.0	.72	1.2
23	146	152	16	3.8	31	40	134	42	8.3	1.8	.63	1.8
24	81	106	15	3.8	26	48	93	32	9.1	4.7	1.1	3.0
25	46	69	14	3.9	21	46	56	80	7.0	1.4	.63	34
26	27	43	13	4.0	19	64	48	73	5.6	3.2	.72	15
27	18	94	12	4.2	18	51	32	49	7.5	2.4	3.0	8.6
28	13	198	12	4.0	20	46	23	93	6.5	1.6	1.7	4.9
29	11	151	12	3.9	18	34	19	93	5.2	1.3	1.2	2.8
30	9.6	82	12	3.8	---	28	37	70	4.1	1.2	.55	1.9
31	9.1	---	12	3.6	---	23	---	45	---	1.0	.41	---
TOTAL	586.5	1184.7	1228	185.3	1153.4	859.7	1222	1070	329.3	157.4	59.63	135.91
MEAN	18.9	39.5	39.6	5.98	39.8	27.7	40.7	34.5	11.0	5.08	1.92	4.53
MAX	154	198	157	11	215	115	134	93	35	60	8.6	34
MIN	1.1	6.7	12	3.6	3.7	4.3	14	10	4.1	1.0	.41	.55
CFSM	.96	2.02	2.02	.31	2.03	1.41	2.08	1.76	.56	.26	.10	.23
IN.	1.11	2.25	2.33	.35	2.19	1.63	2.32	2.03	.62	.30	.11	.26

CAL YR 1983 TOTAL 10240.74 MEAN 28.1 MAX 422 MIN .29 CFSM 1.43 IN. 19.44
WTR YR 1984 TOTAL 8171.84 MEAN 22.3 MAX 215 MIN .41 CFSM 1.14 IN. 15.51

05529000 DES PLAINES RIVER NEAR DES PLAINES, IL

LOCATION.--Lat 42°04'55", long 87°53'25", in SE¼SE¼ sec.25, T.42 N., R.11 E., Cook County, Hydrologic Unit 07120004, on right bank 50 ft upstream from Dam No. 2 of Cook County Forest Preserve, 0.3 mi downstream from Lake Avenue Bridge, 1.2 mi upstream from Central Road Bridge, 2.5 mi north of Des Plaines, and at mile 69.3.

DRAINAGE AREA.--360 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 975: 1942. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 626.31 ft National Geodetic Vertical Datum of 1929. Prior to Apr. 8, 1941, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--44 years, 262 ft³/s, 9.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,670 ft³/s Apr. 2, 1960, gage height, 8.56 ft; no flow for many days in 1944, 1946, and Aug. 7, 8, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 4, 1938, reached a stage of 9.0 ft, from floodmark, discharge, 5,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	1030	1530	2.87	Apr. 23	0200	1680	3.22
Feb. 13	1715	*1830	*3.61				

Minimum discharge, 42 ft³/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	183	916	200	111	544	650	1200	727	239	69	69
2	51	216	828	195	112	482	592	1060	675	189	73	69
3	48	189	771	200	118	430	551	976	624	157	73	65
4	62	162	728	203	122	380	592	928	584	142	69	62
5	73	147	705	200	121	346	592	891	551	124	65	65
6	69	133	736	190	118	313	559	835	505	124	58	65
7	62	124	674	180	113	275	528	789	505	106	106	69
8	69	119	586	175	109	251	409	736	459	93	222	78
9	62	114	511	170	107	233	459	675	380	93	251	82
10	58	114	445	170	105	222	430	616	339	101	269	70
11	51	119	706	160	135	216	401	551	307	339	263	68
12	114	119	1360	165	430	205	430	489	294	294	257	65
13	110	110	1090	170	1700	205	616	452	288	307	216	106
14	97	106	1050	160	1690	199	624	416	269	320	147	182
15	85	114	1130	155	1270	307	650	387	228	313	106	111
16	77	122	1040	150	1120	710	771	360	205	300	93	88
17	69	122	930	146	1120	608	854	333	189	294	114	74
18	69	119	840	137	1150	530	826	326	222	263	124	71
19	65	168	870	132	1310	505	780	373	216	194	65	71
20	69	282	930	130	1340	798	745	360	194	142	73	71
21	81	277	850	122	1230	994	710	333	178	124	73	71
22	624	265	720	118	1120	1010	1130	544	210	101	69	64
23	872	835	580	116	1040	938	1640	727	366	93	73	79
24	452	919	540	114	966	947	1450	567	401	89	73	59
25	339	745	450	117	900	938	1260	754	423	81	69	256
26	282	650	370	118	835	900	1150	771	416	93	65	256
27	245	727	310	119	771	872	1100	608	408	93	69	147
28	205	1440	280	120	710	844	1070	844	373	81	77	123
29	183	1270	250	118	633	798	1040	1060	339	73	69	105
30	157	1050	230	116	---	754	1310	900	294	73	65	91
31	133	---	215	115	---	701	---	789	---	73	65	---
TOTAL	4988	11060	21641	4681	20606	17455	23999	20650	11169	5108	3500	2852
MEAN	161	369	698	151	711	563	800	666	372	165	113	95.1
MAX	872	1440	1360	203	1700	1010	1640	1200	727	339	269	256
MIN	48	106	215	114	105	199	401	326	178	73	58	59
CFSM	.45	1.02	1.94	.42	1.97	1.56	2.22	1.85	1.03	.46	.31	.26
IN.	.52	1.14	2.24	.48	2.13	1.80	2.48	2.13	1.15	.53	.36	.29

CAL YR 1983	TOTAL	170225	MEAN	466	MAX	3770	MIN	48	CFSM	1.29	IN. 17.59
WTR YR 1984	TOTAL	147709	MEAN	404	MAX	1700	MIN	48	CFSM	1.12	IN. 15.26

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05529000 DES PLAINES RIVER NEAR DES PLAINES, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
OCT 18...	0830	17002	17002	73	1050	7.5	13.0	14	7.8	27	210	320
NOV 22...	0900	17002	17002	263	948	7.6	7.0	18	10.6	20	290	370
JAN 12...	0800	17002	17002	E165	1130	7.4	.0	3.0	11.9	23	64	460
FEB 10...	1030	17002	17002	E105	1250	7.4	.0	4.0	14.1	26	68	420
MAR 26...	0930	17002	17002	928	799	7.3	4.0	10	11.0	20	91	300
MAY 14...	0830	17002	17002	423	895	7.3	14.5	13	8.0	29	250	380
JUL 03...	0900	17002	17002	162	966	7.4	23.0	34	6.7	31	360	400
AUG 20...	0900	17002	17002	73	762	7.2	22.5	33	7.2	32	150	290
SEP 26...	1000	17002	17002	257	706	7.2	16.0	57	6.0	41	1000	230

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 18...	81	75	35	32	110	110	8.9	8.4	130	130	--	--
NOV 22...	87	86	39	38	75	74	6.3	6.0	130	100	.4	616
JAN 12...	100	100	48	48	100	100	6.1	6.0	150	150	--	--
FEB 10...	98	97	44	43	130	130	6.8	6.7	150	190	--	--
MAR 26...	70	67	34	33	56	56	3.8	3.5	74	92	--	--
MAY 14...	83	83	41	41	55	55	4.1	3.9	85	86	--	--
JUL 03...	91	90	42	42	69	71	5.6	5.0	110	93	--	--
AUG 20...	71	68	31	29	84	82	7.4	6.9	110	100	--	--
SEP 26...	56	54	23	22	66	67	7.1	6.6	85	79	--	--

E Estimated.

05529000 DES PLAINES RIVER NEAR DES PLAINES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 18...	33	9	5.4	.380	.003	--	--	--	1.20	.980	530	100
NOV 22...	23	6	3.6	.390	.002	.91	1.3	4.9	.610	.570	310	<50
JAN 12...	10	2	4.7	1.70	.004	--	--	--	.660	.670	160	65
FEB 10...	11	4	5.1	1.40	.003	--	--	--	.500	.480	290	63
MAR 26...	31	6	3.4	.130	<.001	--	--	--	.180	.110	690	<50
MAY 14...	43	12	3.0	.250	.001	--	--	--	.270	.190	620	<50
JUL 03...	80	16	4.5	.150	.002	--	--	--	.390	.350	1900	<50
AUG 20...	88	13	4.5	.290	.002	--	--	--	.730	.600	1300	<50
SEP 26...	80	11	3.4	.560	.003	--	--	--	.550	.480	2600	<50

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 18...	--	34	30	<1	<1	370	360	<3	<3	5	<5	<5
NOV 22...	3	41	37	<1	<1	220	220	<3	<3	<5	<5	<5
JAN 12...	--	44	42	<2	<2	240	240	<3	<3	9	<5	<5
FEB 10...	--	45	42	<1	<1	260	260	<3	<3	<5	<5	<5
MAR 26...	--	30	23	<1	<.5	94	92	<3	<3	<5	<5	<5
MAY 14...	--	40	34	<1	<.5	180	160	<3	3	<5	<5	<5
JUL 03...	--	56	48	<1	<1	240	230	<3	<3	<5	<5	<5
AUG 20...	--	48	39	<1	<.5	290	290	<3	<3	<5	<5	<5
SEP 26...	--	50	39	2	3	260	250	5	<3	11	<5	<5

05529000 DES PLAINES RIVER NEAR DES PLAINES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT 18...	<5	10	8	680	<50	<50	<50	80	71	--	16	13
NOV 22...	<5	<5	<5	640	<50	<50	<50	68	49	<.1	<5	5
JAN 12...	<5	6	7	140	<50	<50	<50	79	76	--	9	8
FEB 10...	<5	<5	<5	470	<50	<50	<50	110	97	--	<5	<5
MAR 26...	<5	<5	<5	1100	<50	<50	<50	57	24	--	<5	<5
MAY 14...	<5	<5	7	1200	58	<50	<50	110	62	--	6	11
JUL 03...	<5	<5	<5	2300	<50	<50	<50	140	54	--	<5	<5
AUG 20...	6	7	<5	1900	<50	<50	<50	160	58	--	8	9
SEP 26...	<5	14	7	3200	<50	<50	<50	120	40	--	10	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 18...	<3	<3	1100	990	<5	<5	120	<100	.00	--	1
NOV 22...	<3	<3	710	700	<5	<5	<100	100	.01	<1	0
JAN 12...	<3	4	660	640	<5	<5	<100	<100	.01	--	0
FEB 10...	<3	<3	810	800	<5	<5	<50	<50	--	--	2
MAR 26...	<3	<3	270	260	5	<5	<100	<100	.00	--	0
MAY 14...	<3	5	450	430	<5	6	<50	<50	.00	--	0
JUL 03...	--	--	660	640	<5	<5	<50	<50	.00	--	0
AUG 20...	<3	<3	870	810	<5	<5	<50	<50	.00	--	0
SEP 26...	<3	<3	750	720	<5	<5	100	<100	.00	--	0

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05529500 MC DONALD CREEK NEAR MOUNT PROSPECT, IL

LOCATION.--Lat 42°05'43", long 87°54'46", in SW¼SE¼ sec.23, T.42 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on Camp McDonald Road, 2.5 mi northeast of Mount Prospect and at mile 2.0.

DRAINAGE AREA.--7.93 mi^2.

PERIOD OF RECORD.--August 1952 to current year.

REVISED RECORDS.--WSP 1915: 1958. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.12 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark). Prior to May 9, 1978, at site 55 ft downstream at same datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--32 years, 5.96 ft^3/s, 10.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 664 ft^3/s June 20, 1972, gage height, 7.58 ft; maximum gage height, 8.04 ft July 13, 1957; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft^3/s Nov. 28, gage height, 5.34 ft, no peak above base of 160 ft^3/s; no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	19	9.5	1.6	1.1	2.3	3.5	12	7.0	.86	.04	.03
2	.24	13	7.3	1.7	1.2	2.0	3.6	10	6.0	.73	.00	.40
3	.19	5.4	5.5	1.8	1.4	1.9	6.1	9.0	5.2	.66	.00	1.0
4	.23	3.3	4.6	1.9	1.3	1.8	13	11	4.0	.64	.01	.23
5	.53	3.4	4.5	1.8	1.2	1.7	7.3	6.9	3.2	.57	.00	.09
6	.35	2.6	11	1.6	1.2	1.6	4.8	5.3	3.8	.72	.00	.07
7	.23	2.1	6.2	1.4	1.2	1.5	3.8	4.9	4.5	.69	3.4	.06
8	.91	1.8	4.4	1.3	1.3	1.5	3.6	4.3	4.3	.57	2.2	.71
9	1.2	1.5	3.8	1.3	1.5	1.4	3.4	3.8	3.7	.47	2.4	1.9
10	.53	1.4	3.4	1.3	4.0	1.4	3.7	3.5	3.1	1.2	7.5	.25
11	.32	2.1	50	1.2	17	1.4	3.8	3.6	2.6	25	.75	.19
12	7.0	1.5	71	1.2	60	1.4	18	3.2	2.2	2.0	.36	.16
13	2.0	1.2	22	1.2	102	1.7	16	5.6	2.4	.92	.27	3.2
14	.94	1.1	40	1.1	30	2.1	7.2	3.8	1.7	.58	.19	2.5
15	.57	1.2	25	1.1	19	18	14	3.2	1.4	.43	.11	1.3
16	.37	3.5	13	1.0	12	44	21	2.9	1.4	.33	.61	.43
17	.28	1.6	8.6	1.0	9.8	9.7	19	2.8	1.4	.19	2.6	.17
18	.23	1.3	6.0	1.0	14	6.3	11	3.0	4.0	.19	1.3	.17
19	.18	11	4.0	1.0	24	7.5	8.8	16	1.8	.23	.37	.09
20	.69	26	3.3	1.0	12	57	6.9	8.3	1.2	.92	.25	.00
21	1.9	8.6	2.9	1.0	8.1	33	5.3	4.1	1.1	.50	.21	.01
22	65	4.3	2.6	1.0	6.9	27	73	42	3.1	.26	.13	.03
23	60	87	2.3	1.1	5.5	20	51	25	2.1	.20	.03	3.0
24	14	39	2.2	1.1	4.5	17	20	8.2	3.9	.31	.00	1.1
25	8.3	13	2.0	1.2	3.6	12	14	66	1.4	.21	.00	18
26	5.1	8.0	1.9	1.3	3.1	8.7	11	20	1.1	.82	.17	5.9
27	3.1	31	1.8	1.4	2.7	7.8	9.8	11	4.0	1.3	.00	1.5
28	2.1	98	1.8	1.3	2.3	6.9	10	60	1.4	.48	.00	.84
29	1.8	31	1.7	1.2	2.3	5.1	10	25	1.1	.32	.04	.71
30	1.6	14	1.6	1.1	---	4.4	44	13	.98	.19	.06	.46
31	1.7	---	1.6	1.1	---	4.1	---	9.0	---	.10	.00	---
TOTAL	181.87	430.7	325.5	39.3	354.2	312.2	426.5	406.4	85.08	42.59	23.00	44.50
MEAN	5.87	14.6	10.5	1.27	12.2	10.1	14.2	13.1	2.84	1.37	.74	1.48
MAX	65	98	71	1.9	102	57	73	66	7.0	25	7.5	18
MIN	.18	1.1	1.6	1.0	1.1	1.4	3.4	2.8	.98	.10	.00	.00
CFSM	.74	1.84	1.32	.16	1.54	1.27	1.79	1.65	.36	.17	.09	.19
IN.	.85	2.06	1.53	.18	1.66	1.46	2.00	1.91	.40	.20	.11	.21

CAL YR 1983 TOTAL 3326.88 MEAN 9.11 MAX 242 MIN .05 CFSM 1.15 IN. 15.61
WTR YR 1984 TOTAL 2679.94 MEAN 7.32 MAX 102 MIN .00 CFSM .92 IN. 12.57

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05530000 WELLER CREEK AT DES PLAINES, IL

LOCATION.--Lat 42°02'58", long 87°55'05", in NW1/4NW1/4 sec.18, T.41 N., R.12 E., Cook County, Hydrologic Unit 07120004, on right bank 10 ft upstream from bridge on State Highway 58 (Golf Road) in Des Plaines, 2 mi west of U.S. Highway 45, and at mile 3.0.

DRAINAGE AREA.--13.2 mi².

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1915: 1957-60. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 634.02 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark). Prior to Sept. 9, 1968, at site 90 ft downstream and at datum 1.00 ft higher. Sept. 9, 1968, to Sept. 10, 1970, at present site at datum 1.00 ft higher.

REMARKS.--Records fair except those for winter periods, which are poor. Prior to Nov. 15, 1958, effluent from Arlington Heights sewage treatment plant entered Weller Creek above station.

AVERAGE DISCHARGE.--34 years, 10.8 ft³/s, 11.11 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft³/s June 10, 1967, gage height, 15.09 ft, present datum; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 812 ft³/s Oct. 22, gage height, 7.35 ft; minimum daily, 0.07 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	33	8.5	1.6	.66	.76	1.4	4.7	7.0	.76	.60	.20
2	.60	21	6.1	1.6	.68	.70	1.1	4.3	5.1	.60	.60	1.4
3	.45	5.3	5.3	1.6	.72	.67	6.0	5.1	3.4	.60	.60	.76
4	.45	3.4	4.9	1.5	.68	.64	8.5	5.5	2.6	.60	.76	1.4
5	.52	2.6	6.6	1.4	.64	.62	7.0	3.0	2.2	.60	.76	3.0
6	.45	2.0	16	1.3	.60	.62	5.5	2.2	15	.76	.76	1.0
7	.26	1.7	6.3	1.2	.59	.70	3.9	2.2	6.5	.76	6.0	1.6
8	1.6	1.5	5.0	1.2	.58	.80	3.0	1.9	5.5	.60	3.9	6.5
9	.64	1.3	4.6	1.1	1.0	1.0	2.2	1.9	3.9	.60	48	1.2
10	.39	1.5	3.9	1.0	10	1.2	1.9	2.2	2.6	10	22	.16
11	.30	2.3	151	.98	30	1.4	1.6	2.2	1.6	45	.93	.16
12	12	1.3	88	.95	80	.93	36	1.9	1.6	1.6	.48	.15
13	1.1	.93	10	.93	220	1.6	8.0	5.1	2.2	1.1	.37	11
14	.68	.93	46	.89	85	1.4	3.4	1.9	1.6	.93	.37	.84
15	.57	1.2	11	.85	17	47	14	1.9	1.6	.93	.28	1.5
16	.45	2.9	5.2	.82	12	76	22	1.4	1.6	.93	.28	.31
17	.45	1.5	3.7	.80	8.0	6.0	15	1.6	8.5	.76	2.2	.13
18	.45	1.5	3.2	.79	10	4.3	7.5	1.4	9.5	.76	.60	.12
19	.45	22	2.7	.78	20	10	4.3	5.5	2.2	.76	.48	.09
20	1.8	23	2.5	.78	5.1	81	2.6	4.7	1.6	4.7	.37	.14
21	2.0	5.0	2.3	.77	3.4	26	1.9	1.9	1.6	6.5	.28	.12
22	304	2.9	2.3	.74	2.6	14	215	103	4.3	.93	.20	.10
23	101	225	2.2	.72	1.9	10	73	14	25	.76	.37	1.6
24	12	47	2.2	.70	1.6	8.5	12	6.0	14	.93	.28	.27
25	7.3	11	2.2	.72	1.4	7.0	5.5	98	1.9	.93	.20	70
26	3.9	7.6	2.0	.73	1.1	5.5	8.0	16	1.4	3.9	.16	5.6
27	3.2	118	1.9	.74	1.1	4.7	12	9.0	10	1.4	.13	1.8
28	2.3	181	1.7	.74	1.6	3.9	5.1	118	1.4	.76	.28	1.5
29	1.7	18	1.7	.71	3.4	2.6	14	32	.93	.76	.13	.84
30	2.0	9.5	1.7	.66	—	1.9	31	15	.76	.60	.07	.69
31	1.5	—	1.6	.64	—	1.6	—	10	—	.60	.10	—
TOTAL	465.11	755.86	412.3	29.94	521.35	323.04	532.4	483.5	147.09	91.42	92.54	114.18
MEAN	15.0	25.2	13.3	.97	18.0	10.4	17.7	15.6	4.90	2.95	2.99	3.81
MAX	304	225	151	1.6	220	81	215	118	25	45	48	70
MIN	.26	.93	1.6	.64	.58	.62	1.1	1.4	.76	.60	.07	.09
CFSM	1.14	1.91	1.01	.07	1.36	.79	1.34	1.18	.37	.22	.23	.29
IN.	1.31	2.13	1.16	.08	1.47	.91	1.50	1.36	.41	.26	.26	.32

CAL YR 1983 TOTAL 4889.73 MEAN 13.4 MAX 611 MIN .26 CFSM 1.02 IN. 13.78
WTR YR 1984 TOTAL 3968.73 MEAN 10.8 MAX 304 MIN .07 CFSM .82 IN. 11.18

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05530590 DES PLAINES RIVER NEAR SCHILLER PARK, IL

LOCATION.--Lat 41°57'11", long 87°51'15", in SE¼ sec.15, T.40 N., R.12 E., Cook County, Hydrologic Unit 07120004, at bridge on State Highway 19 (Irving Park Road), 0.3 mi east of Schiller Park, 0.8 mi downstream from Crystal Creek, 3.0 mi downstream from Willow Creek, and at mile 56.9.

DRAINAGE AREA.--444 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1967-77 are published in Water-Resources Investigations 78-22 and 79-23 as site G 15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 18...	1300	17002	17002	E120	1060	7.6	15.0	8.0	8.3	23	14000
NOV 22...	1230	17002	17002	400	957	7.4	9.0	22	9.8	29	2500
JAN 18...	1030	17002	17002	E170	1400	7.5	.0	3.0	10.5	44	320
FEB 10...	0830	17002	17002	E135	1530	7.3	2.0	5.0	11.3	14	1100
MAR 26...	1300	17002	17002	1040	904	7.2	5.0	10	11.1	23	190
MAY 09...	0930	17002	17002	765	963	7.6	12.0	6.0	7.3	36	220
JUL 03...	1330	17002	17002	200	1050	7.4	23.5	33	7.2	32	1800
AUG 20...	1300	17002	17002	137	1060	7.4	24.0	9.0	8.1	42	1400
SEP 26...	1330	17002	17002	E320	801	7.1	17.0	34	5.2	32	810

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 18...	340	130	.00	83	82	34	33	130	130	11	11
NOV 22...	370	160	.00	88	87	37	37	85	85	7.3	7.2
JAN 18...	450	190	.00	110	100	47	45	170	170	9.8	9.6
FEB 10...	460	190	.00	110	110	46	46	170	180	9.1	9.0
MAR 26...	320	140	.00	75	73	35	34	75	77	4.3	4.1
MAY 09...	410	180	.00	90	89	45	45	69	69	5.7	5.4
JUL 03...	400	150	.00	93	91	42	41	89	90	7.8	7.4
AUG 20...	330	0	.00	80	78	32	32	110	110	11	10
SEP 26...	220	100	.00	56	52	23	22	66	65	7.0	6.4

E Estimated.

05530590 DES PLAINES RIVER NEAR SCHILLER PARK, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 18...	212	140	160	.8	---	30	10	5.5	.440	.005	.96
NOV 22...	212	120	110	.5	632	38	24	3.9	.290	.001	1.0
JAN 18...	260	150	220	.6	---	56	13	5.2	1.40	.004	2.0
FEB 10...	272	150	250	.6	---	15	10	3.7	1.20	.002	1.3
MAR 26...	184	80	110	.2	---	33	7	3.4	.230	<.001	.87
MAY 09...	224	88	110	.4	---	31	11	2.9	1.90	.017	1.8
JUL 03...	244	120	120	.6	---	64	16	4.6	.090	.001	1.9
AUG 20...	332	130	140	.9	---	58	12	4.6	.180	.002	2.4
SEP 26...	120	89	81	.4	---	82	15	4.2	.550	.002	1.9

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 18...	1.4	6.9	1.20	.940	550	78	6	35	33	<1	<1
NOV 22...	1.3	5.2	.620	.570	460	<50	2	43	38	<1	<1
JAN 18...	3.4	8.6	1.10	.870	670	<50	4	52	43	<1	<1
FEB 10...	2.5	6.2	.580	.520	220	70	2	52	49	<1	<1
MAR 26...	1.1	4.5	.200	.130	650	<50	4	30	24	<1	<.5
MAY 09...	3.7	6.6	.360	.200	520	<50	2	37	32	<1	<.5
JUL 03...	2.0	6.6	.540	.500	1600	<50	4	54	45	<2	<2
AUG 20...	2.6	7.2	.480	.560	730	<50	6	47	40	<1	<.5
SEP 26...	2.4	6.6	.440	.590	2400	50	5	50	35	3	3

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT 18...	500	500	<3	<3	<5	<5	<5	<5	22	12
NOV 22...	300	310	<3	<3	<5	<5	<5	<5	10	<5
JAN 18...	390	390	<3	<3	8	<5	<5	<5	26	10
FEB 10...	410	400	<3	<3	<5	<5	<5	<5	23	19
MAR 26...	120	120	<3	<3	<5	<5	<5	<5	<5	<5
MAY 09...	180	160	<3	<3	<5	<5	<5	<5	20	<5
JUL 03...	360	350	<3	<3	<5	<5	<5	<5	8	<5
AUG 20...	480	480	<3	<3	<5	<5	<5	<5	16	6
SEP 26...	260	250	<3	<3	11	<5	<5	<5	13	6

05530590 DES PLAINES RIVER NEAR SCHILLER PARK, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 18...	810	<50	<50	<50	86	65	<.1	21	19	<3
NOV 22...	970	<50	<50	<50	79	52	<.1	7	7	<3
JAN 18...	730	<50	<50	<50	150	100	<.1	15	12	<3
FEB 10...	440	<50	<50	<50	100	94	<.1	11	10	<3
MAR 26...	910	<50	<50	<50	66	29	<.1	<5	<5	<3
MAY 09...	910	<50	<50	<50	78	47	<.1	<5	<5	<3
JUL 03...	1900	<50	<50	<50	110	37	<.1	6	<5	<3
AUG 20...	1000	<50	<50	<50	130	58	<.1	12	<5	<3
SEP 26...	3100	<50	<100	<50	120	39	<.1	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 18...	<3	1700	1600	<5	<5	170	160	.00	<1	1
NOV 22...	<3	1000	1000	<5	<5	<100	<50	.01	<1	0
JAN 18...	<3	1400	1400	<5	<5	140	<100	.01	6	0
FEB 10...	<3	1300	1300	<5	<5	<100	<100	.01	5	1
MAR 26...	<3	370	360	<5	<5	<100	<100	.00	<1	0
MAY 09...	<3	460	450	<5	<5	120	<100	.00	4	1
JUL 03...	<3	1100	1000	<5	<5	<100	<50	.00	3	1
AUG 20...	<3	1500	1500	<5	<5	<100	<50	.01	5	1
SEP 26...	<3	760	730	<5	<5	<100	<100	.00	2	2

05530990 SALT CREEK AT ROLLING MEADOWS, IL

LOCATION.--Lat 42°03'37", long 88°00'59", in SW1/4NE1/4 sec.8, T.41 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on Algonquin Road in Rolling Meadows, 0.25 mi downstream from Arlington Heights Branch Salt Creek, and at mile 35.6.

DRAINAGE AREA.--30.5 mi².

PERIOD OF RECORD.--October 1973 to current year. August 1950 to September 1971, October 1971 to September 1972 (annual maximum discharge and gage height only), October 1972 to September 1973 at site 0.9 mi downstream, published as Salt Creek near Arlington Heights. Records may not be equivalent.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 686.40 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 29.6 ft³/s, 13.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,060 ft³/s Dec. 3, 1982, gage height, 12.56 ft; no flow Jan. 12 to Feb. 8, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 22	1700	457	7.70	Feb. 13	0300	*546	*8.50
Nov. 23	1130	355	6.71	Apr. 22	1800	313	6.22
Nov. 27	2230	418	7.33	Apr. 30	0230	330	6.41
Dec. 11	2330	350	6.66				

Minimum daily discharge, 0.31 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	53	62	13	8.0	23	32	101	34	4.2	.78	.66
2	1.9	55	46	12	8.2	22	29	63	29	3.7	1.2	1.1
3	1.6	36	39	13	9.6	19	34	52	22	3.1	1.2	2.1
4	1.6	25	34	14	9.0	19	55	51	18	3.1	2.5	3.4
5	1.7	20	34	12	8.3	19	48	41	15	3.1	1.4	5.5
6	1.6	16	49	12	8.0	22	38	34	17	4.2	1.6	2.2
7	.97	14	35	11	8.5	16	30	31	22	1.9	26	1.5
8	4.8	13	29	11	8.8	14	24	28	22	1.5	10	9.0
9	2.6	12	26	11	9.2	13	26	25	18	1.4	60	5.5
10	1.4	12	24	11	10	13	25	24	16	3.2	90	2.5
11	1.2	13	160	10	16	12	23	24	14	72	25	1.9
12	28	10	277	10	130	10	86	21	10	15	15	1.4
13	14	9.0	122	9.6	430	15	126	27	12	7.1	12	17
14	7.0	8.3	137	9.5	218	14	74	22	9.4	4.2	7.4	11
15	4.5	9.5	130	9.4	127	73	76	18	7.4	2.4	5.8	12
16	2.9	14	72	9.5	83	202	105	16	7.1	3.3	4.9	3.9
17	2.0	11	44	9.6	66	86	98	15	7.4	2.2	5.5	2.1
18	1.8	9.6	35	9.3	79	52	68	14	16	1.1	4.9	1.5
19	1.3	52	27	9.1	124	58	52	31	9.0	.85	3.1	1.0
20	5.0	82	22	9.0	85	174	45	25	6.8	33	2.9	.92
21	6.9	49	20	8.8	61	159	39	19	5.2	64	1.8	.92
22	228	32	18	8.8	50	137	209	103	16	12	1.2	1.3
23	239	263	17	8.8	45	103	193	79	25	4.9	.85	14
24	95	161	16	9.0	41	113	102	39	31	3.7	.85	5.5
25	52	73	15	9.0	41	102	54	176	13	3.1	.66	61
26	36	50	14	10	32	81	41	113	7.8	5.2	.40	27
27	27	131	14	10	29	66	46	53	22	4.2	.44	13
28	23	354	14	9.4	26	57	47	163	9.4	2.4	.40	7.8
29	18	175	14	8.8	26	46	58	137	6.8	1.5	.44	5.2
30	14	90	13	8.4	---	39	217	70	5.5	1.3	.44	3.7
31	13	---	13	8.2	---	35	---	46	---	1.1	.31	---
TOTAL	840.17	1852.4	1572	314.2	1796.6	1814	2098	1661	453.8	273.95	289.05	227.60
MEAN	27.1	61.7	50.7	10.1	62.0	58.5	69.9	53.6	15.1	8.84	9.32	7.59
MAX	239	354	277	14	430	202	217	176	34	72	90	61
MIN	.97	8.3	13	8.2	8.0	10	23	14	5.2	.85	.31	.66
CFSM	.89	2.02	1.66	.33	2.03	1.92	2.29	1.76	.50	.29	.31	.25
IN.	1.02	2.26	1.92	.38	2.19	2.21	2.56	2.03	.55	.33	.35	.28

CAL YR 1983 TOTAL 14967.06 MEAN 41.0 MAX 674 MIN .21 CFSM 1.34 IN. 18.25
WTR YR 1984 TOTAL 13192.77 MEAN 36.0 MAX 430 MIN .31 CFSM 1.18 IN. 16.09

05531500 SALT CREEK AT WESTERN SPRINGS, IL

LOCATION.--Lat 41°49'35", long 87°54'00", in NE1/4SE1/4 sec.31, T.39 N., R.12 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on Wolf Road, in Cook County Forest Preserve, 0.5 mi north of Western Springs, and at mile 8.8.

DRAINAGE AREA.--114 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1915: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 624.93 ft National Geodetic Vertical Datum of 1929. Prior to July 26, 1946, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Occasional regulation by dam above station.

AVERAGE DISCHARGE.--39 years, 111 ft³/s, 13.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,070 ft³/s Dec. 5, 1982, gage height, 8.71 ft; minimum, 0.4 ft³/s July 13, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft³/s Feb. 14, gage height, 6.91 ft, no peak above base of 1,100 ft³/s; minimum daily, 36 ft³/s Aug. 25, 26, Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	79	454	79	58	106	132	405	251	66	57	48
2	49	155	304	77	63	104	126	359	179	63	52	42
3	52	165	222	76	72	99	134	253	147	62	52	36
4	48	142	174	81	71	99	215	223	122	57	57	48
5	48	108	167	79	70	96	238	180	110	53	86	80
6	45	94	220	75	65	94	231	149	101	61	58	49
7	43	83	202	72	71	90	190	135	100	55	61	43
8	50	75	171	72	72	87	155	120	102	52	79	52
9	45	68	148	71	59	83	135	111	149	51	113	66
10	43	69	127	70	73	79	128	102	126	55	352	55
11	49	74	356	66	110	78	122	100	97	191	297	69
12	93	70	650	64	308	75	170	94	87	133	197	57
13	80	65	674	62	891	76	340	105	87	103	116	72
14	68	60	675	60	1010	80	250	102	87	82	91	81
15	60	61	600	60	838	151	240	96	79	68	79	69
16	50	77	490	62	541	539	270	87	71	61	72	65
17	54	65	356	62	368	495	305	84	66	56	67	57
18	49	62	240	60	314	404	275	83	67	58	69	50
19	47	83	190	58	390	292	260	88	72	53	60	47
20	53	189	150	60	384	541	240	120	72	54	53	49
21	69	238	120	60	321	598	220	102	68	106	49	43
22	404	228	110	58	255	617	420	288	80	109	48	41
23	654	670	105	58	210	542	620	453	94	88	40	92
24	626	603	100	58	174	458	540	376	194	77	38	69
25	481	589	97	59	156	404	480	418	148	67	36	268
26	255	422	94	63	133	347	400	523	110	65	36	253
27	155	378	92	68	127	296	250	498	104	71	39	152
28	116	831	90	64	121	257	250	543	95	60	40	99
29	98	842	86	62	113	211	220	624	81	59	40	76
30	85	724	83	62	---	175	480	563	72	54	40	64
31	78	---	80	60	---	149	---	404	---	54	38	---
TOTAL	4098	7369	7627	2038	7438	7717	8036	7788	3218	2244	2512	2292
MEAN	132	246	246	65.7	256	249	268	251	107	72.4	81.0	76.4
MAX	654	842	675	81	1010	617	626	624	251	191	352	268
MIN	43	60	80	58	58	73	122	83	66	51	36	36
CFSM	1.15	2.14	2.14	.57	2.23	2.17	2.33	2.18	.93	.63	.70	.66
IN.	1.33	2.38	2.47	.66	2.41	2.50	2.60	2.52	1.04	.73	.81	.74

CAL YR 1983	TOTAL	72781	MEAN	199	MAX	1750	MIN	39	CFSM	1.73	IN.	23.54
WTR YR 1984	TOTAL	62377	MEAN	170	MAX	1010	MIN	36	CFSM	1.48	IN.	20.18

05531500 SALT CREEK AT WESTERN SPRINGS, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 25...	1500	17002	17002	453	654	7.3	12.0	91	8.6	26	8600
DEC 05...	1230	17002	17002	151	1090	5.4	5.0	18	10.4	19	540
FEB 03...	1100	17002	17002	64	3420	7.7	3.5	3.0	11.4	35	260
MAR 09...	1200	17002	17002	79	1870	8.3	1.5	3.0	16.6	22	18
APR 24...	1030	17002	17002	528	1080	7.4	7.5	23	9.4	19	5000
MAY 31...	1000	17002	17002	420	931	7.4	11.0	24	8.2	25	890
JUN 25...	1000	17002	17002	146	981	6.9	21.0	51	5.8	37	320
JUL 20...	1030	17002	17002	54	1710	7.4	23.0	30	6.9	27	250
SEP 07...	0930	17002	17002	56	1490	7.4	18.5	16	6.1	24	2500

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT 25...	230	97	.00	53	55	23	23	58	57	4.8	4.7
DEC 05...	340	140	.00	82	79	36	35	110	110	7.8	7.5
FEB 03...	490	230	.00	120	120	49	49	650	670	18	18
MAR 09...	400	160	.00	92	91	42	42	210	210	13	12
APR 24...	290	110	.00	74	66	33	30	120	99	4.7	3.8
MAY 31...	300	110	.00	70	70	31	31	89	89	5.2	5.2
JUN 25...	260	110	.00	60	58	28	27	110	110	8.0	7.7
JUL 20...	440	190	.00	100	100	47	46	190	190	15	15
SEP 07...	350	130	.00	84	81	37	36	190	190	14	14

05531500 SALT CREEK AT WESTERN SPRINGS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 25...	136	74	71	.3	--	42	10	1.9	.250	.001	1.4
DEC 05...	204	110	150	.4	--	27	7	4.9	.590	<.001	1.1
FEB 03...	264	160	770	.9	1910	13	9	23	3.80	.022	.60
MAR 09...	240	150	310	.7	--	9	3	11	1.80	.035	1.8
APR 24...	176	99	170	.3	--	39	12	1.7	.040	<.001	1.7
MAY 31...	196	84	130	.3	--	55	14	2.3	.390	.002	1.3
JUN 25...	150	91	140	.5	--	78	18	5.6	.440	.002	1.9
JUL 20...	252	180	270	1.2	--	30	8	11	.440	.006	1.6
SEP 07...	220	150	230	.9	--	24	9	10	.460	.004	1.6

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
OCT 25...	1.6	3.5	--	.440	970	<50	<1	44	35	<1	<.5
DEC 05...	1.7	6.6	1.10	1.00	740	67	<1	58	50	<2	<2
FEB 03...	4.4	27	2.70	2.60	380	75	1	95	89	<2	<2
MAR 09...	3.6	15	2.20	2.20	220	62	1	57	53	<1	<.5
APR 24...	1.7	3.4	.360	.280	650	<50	1	39	28	<1	<.5
MAY 31...	1.7	4.0	.380	.360	600	<50	2	58	48	<1	<1
JUN 25...	2.3	7.9	1.40	1.00	2100	<50	3	65	46	<2	<2
JUL 20...	2.0	13	2.20	2.20	850	<50	4	80	69	<1	<1
SEP 07...	2.1	12	2.30	2.23	760	<50	3	60	52	<1	<.5

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT 25...	170	180	<3	<3	8	<5	<5	<5	14	7
DEC 05...	300	290	<3	<3	<5	<5	<5	<5	13	8
FEB 03...	570	580	<3	<3	8	<5	<5	<5	21	14
MAR 09...	460	460	3	3	7	<5	<5	<5	75	60
APR 24...	130	120	<3	<3	10	9	<5	<5	13	6
MAY 31...	190	200	<3	<3	<5	<5	<5	<5	21	5
JUN 25...	320	320	<3	<3	6	<5	<5	<5	22	<5
JUL 20...	730	730	<3	<3	<5	<5	<5	<5	12	<5
SEP 07...	610	610	<3	<3	17	10	6	<5	18	9

05531500 SALT CREEK AT WESTERN SPRINGS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 25...	1500	<50	110	<50	45	17	<.1	19	19	<3
DEC 05...	990	<50	<50	<50	32	12	<.1	10	6	<3
FEB 03...	540	<50	<50	<50	130	120	<.1	19	17	<3
MAR 09...	340	<50	<50	<50	68	56	<.1	6	11	<3
APR 24...	1200	<50	<50	<50	57	19	<.1	<5	<5	<3
MAY 31...	930	<50	<50	<50	61	32	<.1	<5	<5	<3
JUN 25...	2600	73	<50	<50	83	40	<.1	<5	7	<3
JUL 20...	1100	<50	<50	<50	67	37	<.1	8	<5	<3
SEP 07...	780	<50	<50	<50	54	36	<.1	17	12	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 25...	<3	430	440	<5	<5	<100	<100	.00	<1	0
DEC 05...	<3	800	780	<5	<5	120	130	.01	<1	1
FEB 03...	<3	1800	1800	<5	<5	130	<100	.02	10	1
MAR 09...	<3	1500	1500	<5	<5	150	<100	.03	<1	0
APR 24...	<3	360	320	<5	<5	<50	<50	.00	<1	0
MAY 31...	<3	470	480	<5	<5	<100	<50	.00	3	0
JUN 25...	<3	810	810	<5	<5	130	<100	.01	5	2
JUL 20...	<3	2000	1900	<5	<5	<100	<100	.00	4	1
SEP 07...	<3	1900	1900	<5	<5	<100	<50	.00	3	2

05532000 ADDISON CREEK AT BELLWOOD, IL

LOCATION.--Lat 41°52'48", long 87°52'07", in SW¼SE¼ sec.9, T.39 N., R.12 E., Cook County, Hydrologic Unit 07120004, on right bank at downstream side of bridge on Washington Boulevard in Bellwood, 1,050 ft upstream from Chicago Great Western Railway bridge and at mile 3.2.

DRAINAGE AREA.--17.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to June 1951, October 1951 to current year.

REVISED RECORDS.--WSP 1338: 1952. WSP 1708: 1958, 1959(P). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 617.65 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark). Prior to Oct. 26, 1951, at datum 2.00 ft higher.

REMARKS.--Water-discharge records fair except those for winter periods and those for period of no gage-height record, May 9 to June 11, which are poor.

AVERAGE DISCHARGE.--33 years, 15.0 ft³/s, 11.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 839 ft³/s Aug. 7, 1982, gage height, 10.68 ft; no flow Sept. 14, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 22	1730	*464	*7.27	Aug. 9	2030	398	6.60
Nov. 23	0430	374	6.34	Sept. 25	1230	401	6.81

Minimum daily discharge, 0.79 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	23	27	6.8	4.9	13	18	20	21	4.2	2.7	7.1
2	2.3	60	15	6.9	5.2	13	12	12	16	3.3	2.7	5.0
3	2.8	54	7.2	7.6	6.0	12	21	16	12	3.9	2.8	5.9
4	3.7	25	13	8.5	5.8	11	37	18	10	3.9	3.7	6.8
5	5.4	16	21	7.8	5.7	10	33	11	9.5	4.2	14	7.9
6	3.5	13	60	7.4	5.7	9.2	17	9.8	9.0	7.1	4.7	3.4
7	2.0	11	17	7.0	5.9	8.4	13	9.7	13	4.6	12	8.7
8	11	8.8	13	6.9	5.7	7.9	15	9.6	11	2.9	17	14
9	4.6	7.5	9.4	6.8	7.3	7.5	15	9.0	9.7	2.8	77	9.0
10	1.9	17	31	6.3	19	7.0	12	8.4	8.2	11	76	3.0
11	10	32	151	5.5	42	6.6	11	7.7	7.0	66	30	27
12	25	8.8	133	5.8	91	6.4	48	8.0	6.2	13	13	7.5
13	5.1	8.4	67	5.6	173	10	37	8.7	15	5.6	6.8	25
14	4.0	7.1	118	5.1	100	28	30	7.6	7.7	4.7	5.8	13
15	3.2	10	71	4.6	86	84	35	6.8	5.4	4.3	4.7	7.5
16	2.8	42	35	4.6	29	115	44	6.2	5.5	3.5	5.1	3.0
17	3.5	6.9	15	4.6	25	54	43	5.7	4.8	3.2	4.9	2.1
18	4.6	4.3	11	4.2	65	45	33	5.4	4.4	3.9	7.6	7.4
19	3.3	43	9.4	4.2	63	58	19	6.9	4.7	6.8	8.8	6.8
20	4.9	66	8.4	4.1	47	126	15	15	4.3	24	3.7	5.4
21	8.1	39	8.1	4.1	48	78	20	7.8	4.0	28	4.1	2.5
22	252	7.5	7.8	4.1	45	90	151	64	15	14	3.1	6.6
23	117	215	7.5	4.2	22	58	96	30	36	11	3.3	35
24	53	99	7.2	4.5	18	48	42	17	40	3.9	3.0	8.9
25	40	38	8.5	4.8	15	41	36	40	11	3.1	1.9	120
26	32	43	7.9	5.3	13	38	31	25	22	8.9	1.3	19
27	23	105	7.5	6.0	13	38	42	19	14	5.8	1.4	14
28	18	172	7.1	5.5	14	34	26	110	5.4	3.8	1.5	9.5
29	14	92	6.9	4.9	12	21	32	88	11	3.2	1.2	6.5
30	6.8	39	7.2	4.8	---	16	48	51	5.4	2.9	1.1	6.0
31	8.1	---	7.0	4.8	---	14	---	36	---	2.7	.79	---
TOTAL	678.2	1313.3	915.1	173.3	992.2	1108.0	1032	689.3	348.2	270.2	325.69	403.5
MEAN	21.9	43.8	29.5	5.59	34.2	35.7	34.4	22.2	11.6	8.72	10.5	13.4
MAX	252	215	151	8.5	173	126	151	110	40	66	77	120
MIN	1.9	4.3	6.9	4.1	4.9	6.4	11	5.4	4.0	2.7	.79	2.1
CFSM	1.22	2.45	1.65	.31	1.91	1.99	1.92	1.24	.65	.49	.59	.75
IN.	1.41	2.73	1.90	.36	2.06	2.30	2.14	1.43	.72	.56	.68	.84

CAL YR 1983	TOTAL	10166.7	MEAN	27.9	MAX	303	MIN	1.3	CFSM 1.56	IN.	21.13
WTR YR 1984	TOTAL	8248.99	MEAN	22.5	MAX	252	MIN	.79	CFSM 1.26	IN.	17.14

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05532000 ADDISON CREEK AT BELLWOOD, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV 01...	0700	17002	17002	42	1070	7.8	10.0	6.0	8.0	31	5900
DEC 05...	1330	17002	17002	7.4	1150	4.1	4.0	2.0	10.1	20	1900
JAN 04...	1200	17002	17002	E8.5	1530	7.6	.5	4.0	12.0	19	900
MAR 09...	1000	17002	17002	E7.5	2310	7.7	.5	4.0	15.7	18	840
APR 20...	0730	17002	17002	16	1260	7.6	7.5	7.0	10.2	18	710
MAY 31...	0730	17002	17002	41	976	7.4	14.5	10	8.5	24	960
JUN 25...	0830	17002	17002	6.8	705	6.8	18.5	30	4.6	24	2600
JUL 20...	0900	17002	17002	3.3	1210	7.7	22.0	5.0	6.4	17	5500
SEP 07...	0800	17002	17002	9.9	1050	7.4	18.0	17	6.4	24	2300

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
NOV 01...	410	110	100	37	37	100	100	9.6	9.1	130	110
DEC 05...	420	110	100	41	39	97	100	7.2	7.1	130	130
JAN 04...	360	87	87	34	34	200	200	11	11	110	260
MAR 09...	440	110	100	43	43	340	310	12	12	140	450
APR 20...	420	110	99	45	42	120	130	6.9	6.8	120	170
MAY 31...	320	83	76	33	31	91	83	6.0	5.4	80	120
JUN 25...	210	61	54	22	19	73	70	7.1	6.6	66	93
JUL 20...	320	81	78	33	31	130	130	13	13	110	140
SEP 07...	260	67	64	25	24	120	120	13	13	110	110

E Estimated.

05532000 ADDISON CREEK AT BELLWOOD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
NOV 01...	46	6	2.5	.280	.002	.320	.240	330	60	60	54
DEC 05...	21	10	3.9	.200	<.001	.340	.340	400	61	55	50
JAN 04...	15	5	3.6	2.60	.009	.890	.910	380	63	53	49
MAR 09...	13	5	8.5	.180	<.001	1.40	1.40	240	66	31	31
APR 20...	10	9	4.2	.050	<.001	.490	.430	140	<50	32	38
MAY 31...	35	10	2.2	.260	.002	.340	.280	460	<50	49	42
JUN 25...	44	12	2.1	.410	<.001	.320	--	1300	<50	50	36
JUL 20...	15	7	6.4	.240	.006	.540	.590	290	<50	56	52
SEP 07...	31	11	7.6	.130	.001	1.40	1.31	710	<50	44	39

DATE	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
NOV 01...	<1	<2	620	590	<3	<3	9	<5	<5	<5
DEC 05...	<1	<2	440	450	18	9	<5	<5	<5	<5
JAN 04...	<2	<1	550	550	<3	<3	<5	<5	<5	<5
MAR 09...	<1	<.5	640	650	<3	<3	<5	6	<5	<5
APR 20...	<1	<.5	400	380	<3	<3	<5	<5	<5	<5
MAY 31...	<2	<2	310	280	<3	<3	7	9	<5	<5
JUN 25...	<1	<1	340	320	<3	<3	16	6	6	<5
JUL 20...	<1	<1	800	770	<3	<3	<5	<5	<5	<5
SEP 07...	<1	<.5	840	820	<3	<3	<5	<5	<5	<5

05532000 ADDISON CREEK AT BELLWOOD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
NOV 01...	7	<5	810	<50	<50	<50	170	140	6	7
DEC 05...	8	<5	770	<50	<50	<50	150	130	<5	<5
JAN 04...	35	25	540	<50	<50	<100	120	120	<5	<5
MAR 09...	8	6	330	<50	<50	<50	110	110	<5	<5
APR 20...	8	5	370	<50	<50	<50	110	96	<5	<5
MAY 31...	12	7	710	<50	<50	<50	92	61	8	12
JUN 25...	11	5	1600	<50	<100	<50	130	70	11	<5
JUL 20...	6	<5	320	<50	<50	<50	65	23	<5	<5
SEP 07...	7	6	660	<50	<50	<50	64	16	12	11

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 01...	<3	<3	980	930	<5	<5	<100	<100	.01	0
DEC 05...	<3	<3	820	810	<5	<5	<100	<100	.00	1
JAN 04...	<3	<3	1100	1100	<5	<5	120	<100	.01	0
MAR 09...	<3	<3	1700	1700	<5	<5	<50	<50	.01	1
APR 20...	<3	<3	840	790	<5	<5	<50	<50	.01	2
MAY 31...	<3	<3	660	600	7	7	<50	<50	.00	0
JUN 25...	4	<3	710	660	6	<5	<100	<100	.00	1
JUL 20...	<3	---	1900	1800	<5	<5	180	<100	.00	0
SEP 07...	<3	<3	1800	1700	<5	<5	<50	<50	.00	2

05532500 DES PLAINES RIVER AT RIVERSIDE, IL

LOCATION.--Lat 41°49'20", long 87°49'15", in SW¼SW¼ sec.36, T.39 N., R.12 E., Cook County, Hydrologic Unit 07120004, on left bank 400 ft downstream from bridge on Barry Point Road in Riverside, 500 ft downstream from Hoffman Dam, 4,000 ft downstream from Salt Creek, and at mile 44.3.

DRAINAGE AREA.--630 mi².

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1174: 1944, 1948. WSP 1308: 1944(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 594.68 ft National Geodetic Vertical Datum of 1929. Prior to Nov. 27, 1946, nonrecording gage at bridge 400 ft upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation by gates of Hoffman Dam.

AVERAGE DISCHARGE.--41 years, 479 ft³/s, 10.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft³/s Mar. 20, 1948, gage height, 8.28 ft; maximum gage height, 9.82 ft Jan. 26, 1969, ice jam; no flow Aug. 22-24, 1962, and part of Sept. 5, 1968, Aug. 31, Oct. 7, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1914, 7,450 ft³/s Mar. 18, 1919, from information furnished by Metropolitan Sanitary District of Greater Chicago.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,250 ft³/s Feb. 14, gage height, 6.02 ft; minimum daily, 143 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	392	1690	455	225	767	901	1910	1260	383	186	179
2	161	754	1270	430	240	681	828	1770	1040	324	184	161
3	155	653	1080	410	295	609	848	1510	901	293	186	155
4	161	499	964	415	285	557	1090	1420	823	266	179	157
5	183	417	960	415	280	508	1050	1290	763	241	241	258
6	190	382	1110	405	300	477	933	1160	705	251	182	184
7	174	345	1070	394	315	388	807	1040	705	239	187	151
8	198	324	906	377	291	395	728	989	684	212	361	179
9	195	303	786	349	297	368	681	901	802	197	573	265
10	155	297	699	338	347	347	635	828	644	209	1370	182
11	144	315	1320	300	469	347	600	757	503	996	742	266
12	492	296	2600	303	966	334	777	663	466	616	569	189
13	385	284	2500	309	2760	334	1240	663	490	461	439	301
14	253	269	2390	297	3220	347	1160	609	478	428	360	466
15	209	265	2390	297	2980	618	1190	541	401	417	272	304
16	187	379	2010	285	2310	2090	1460	492	362	398	259	228
17	172	308	1610	273	1820	1660	1580	469	330	393	261	184
18	164	277	1290	261	1730	1220	1510	439	366	363	276	175
19	155	388	1420	239	2040	1030	1310	492	378	344	225	163
20	176	767	1480	235	2040	1920	1150	644	362	314	182	162
21	274	816	1520	238	1920	2230	1040	524	334	777	187	159
22	1360	641	1400	240	1720	2270	2040	1220	446	342	182	150
23	2850	2070	1300	240	1550	2000	2960	2050	494	266	171	417
24	2190	2400	1100	233	1390	1780	2780	1450	989	241	170	281
25	1310	1790	1000	240	1260	1630	2340	1560	651	219	163	996
26	910	1310	830	238	1130	1510	1910	2040	613	225	157	1150
27	656	1290	680	242	1030	1410	1680	1530	644	277	149	523
28	546	2790	600	245	957	1330	1620	1890	566	220	165	332
29	448	2760	560	243	848	1210	1480	2500	502	195	164	262
30	383	2290	510	236	---	1100	1910	2160	448	182	156	217
31	352	---	485	230	---	989	---	1670	---	180	143	---
TOTAL	15360	26071	39510	9412	35015	32456	40238	37181	18150	10489	9041	8796
MEAN	495	869	1275	304	1207	1047	1341	1199	605	338	292	293
MAX	2850	2790	2600	455	3220	2270	2960	2500	1260	996	1370	1150
MIN	144	265	485	230	225	334	600	439	330	180	143	150
CFSM	.79	1.38	2.02	.48	1.92	1.66	2.13	1.90	.96	.54	.46	.47
IN.	.91	1.54	2.33	.56	2.07	1.92	2.38	2.20	1.07	.62	.53	.52

CAL YR 1983 TOTAL 320289 MEAN 878 MAX 5670 MIN 140 CFSM 1.39 IN. 18.91
WTR YR 1984 TOTAL 281719 MEAN 770 MAX 3220 MIN 143 CFSM 1.22 IN. 16.63

05533000 FLAG CREEK NEAR WILLOW SPRINGS, IL

LOCATION.--Lat 41°44'20", long 87°53'48", in SE¼NE¼ sec.31, T.38 N., R.12 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on German Church Road, 1.1 mi northwest of Willow Springs and at mile 2.2.

DRAINAGE AREA.--16.5 mi^2.

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 606.36 ft National Geodetic Vertical Datum of 1929. Prior to June 17, 1963, water-stage recorder at same site at datum 3.73 ft higher. June 17, 1963, to June 26, 1964, nonrecording gage at site 0.5 mi upstream at datum 4.82 ft higher.

REMARKS.--Records good. Diurnal fluctuation at low flow caused by sewage-treatment plant, 2 mi upstream from gage site.

AVERAGE DISCHARGE.--33 years, 17.9 ft^3/s, 14.73 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,680 ft^3/s Sept. 14, 1961, gage height, 13.71 ft, present datum; minimum daily, 0.1 ft^3/s Dec. 9, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 470 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 11	1845	495	6.66	Mar. 15	2300	*670	*7.22
Feb. 13	0245	492	6.65	Apr. 22	1130	475	6.59

Minimum daily discharge, 8.6 ft^3/s Oct. 2, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	12	21	11	10	20	28	26	25	13	12	12
2	8.6	44	19	11	11	21	27	24	21	14	12	11
3	9.2	19	17	11	13	21	36	26	19	14	13	10
4	8.9	14	17	12	12	20	49	27	18	14	16	11
5	9.2	13	20	12	11	20	36	23	18	13	15	14
6	9.8	12	27	12	10	20	31	21	17	15	12	11
7	8.9	12	20	11	10	19	28	20	16	13	12	10
8	10	12	18	11	10	19	27	19	16	13	12	12
9	8.6	12	17	11	11	18	27	19	33	13	57	12
10	8.9	12	16	11	13	19	26	19	18	14	53	11
11	9.5	12	193	11	25	18	25	18	16	42	13	13
12	19	12	130	11	130	18	59	18	16	15	11	11
13	10	11	45	11	266	18	49	21	17	14	11	12
14	9.7	11	108	10	87	19	34	18	16	14	11	12
15	9.0	11	67	10	50	124	43	17	14	13	10	10
16	8.8	14	26	10	35	219	55	17	15	13	10	10
17	9.0	12	21	10	32	74	47	17	15	13	10	9.8
18	9.0	11	18	10	52	48	38	17	14	13	10	10
19	8.9	15	16	10	55	59	32	17	14	13	9.8	10
20	11	33	15	10	35	201	29	24	13	13	10	10
21	13	19	15	10	31	115	27	20	13	12	10	10
22	140	15	14	10	29	93	214	109	20	12	10	9.8
23	50	249	13	10	28	68	109	41	26	13	10	17
24	20	56	12	11	25	60	47	24	60	13	10	11
25	15	25	13	11	23	46	33	59	19	12	10	128
26	14	19	12	11	22	40	29	40	18	13	10	27
27	13	114	12	11	21	39	27	24	18	12	10	16
28	13	208	12	11	22	36	28	207	16	12	11	15
29	12	54	12	10	21	31	24	114	15	12	11	13
30	12	27	12	10	---	30	51	42	14	12	10	13
31	12	---	11	10	---	29	---	29	---	12	10	---
TOTAL	509.2	1090	971	331	1100	1582	1315	1117	570	434	431.8	481.6
MEAN	16.4	36.3	31.3	10.7	37.9	51.0	43.8	36.0	19.0	14.0	13.9	16.1
MAX	140	249	193	12	266	219	214	207	60	42	57	128
MIN	8.6	11	11	10	10	18	24	17	13	12	9.8	9.8
CFSM	.99	2.20	1.90	.65	2.30	3.09	2.65	2.18	1.15	.85	.84	.98
IN.	1.15	2.46	2.19	.75	2.48	3.57	2.96	2.52	1.29	.98	.97	1.09

CAL YR 1983 TOTAL 12940.3 MEAN 35.5 MAX 721 MIN 8.6 CFSM 2.15 IN. 29.17
WTR YR 1984 TOTAL 9932.6 MEAN 27.1 MAX 266 MIN 8.6 CFSM 1.64 IN. 22.39

05534050 DES PLAINES RIVER AT LOCKPORT, IL

LOCATION.--Lat 41°35'47", long 88°04'07", in NE¼ sec.22, T.36 N., R.10 E., Will County, Hydrologic Unit 07120004, at bridge on Division Street, 0.7 mi downstream from bridge on State Highway 7 (Ninth Street in Lockport), 0.4 mi west of Lockport, 4.0 mi upstream from Chicago Sanitary and Ship Canal, and at mile 20.1.

DRAINAGE AREA.--700 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1964-77 are published in Water-Resources Investigations 78-22 and 79-23 as site G 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 26...	1400	17002	17002	1000	669	7.2	12.0	27	9.0	31	4800
NOV 21...	1230	17002	17002	900	1150	7.5	9.0	25	10.3	27	3200
JAN 23...	1230	17002	17002	270	1610	7.2	.0	3.0	9.1	20	440
FEB 22...	0900	17002	17002	2000	854	7.4	3.5	13	10.6	18	410
APR 06...	1330	17002	17002	1200	1190	7.7	9.0	4.0	11.8	18	110
MAY 08...	0800	17002	17002	1300	820	7.5	14.0	16	--	24	91
JUN 11...	1330	17002	17002	680	953	7.4	25.0	35	7.3	34	450
JUL 27...	1130	17002	17002	280	1100	7.7	23.0	32	8.9	25	150
SEP 25...	1200	17002	17002	1400	1140	--	20.0	28	--	45	2600

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 26...	220	--	--	54	52	23	22	56	56	5.0	4.8
NOV 21...	360	--	--	89	85	37	36	120	120	10	9.7
JAN 23...	--	--	--	110	--	51	--	210	--	11	--
FEB 22...	280	--	--	66	63	30	29	82	82	4.8	4.7
APR 06...	340	--	--	80	78	37	36	130	130	5.9	5.8
MAY 08...	410	--	--	90	90	45	45	71	66	5.0	4.7
JUN 11...	330	130	.00	78	75	37	35	82	81	6.6	6.1
JUL 27...	330	--	--	81	77	36	34	120	120	9.7	9.4
SEP 25...	310	--	--	78	74	32	30	130	130	12	12

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 26...	—	75	72	.3	354	47	16	2.3	.140	<.001	1.4
NOV 21...	—	130	150	—	—	52	12	5.6	.330	.002	—
JAN 23...	—	160	270	.7	1080	1	1	7.0	1.90	.003	1.1
FEB 22...	—	73	140	—	—	19	10	3.2	.360	.001	—
APR 06...	—	100	190	—	—	28	8	3.5	.500	.005	—
MAY 08...	—	96	110	—	—	22	8	2.9	.090	<.001	—
JUN 11...	204	95	110	.5	—	66	18	2.9	.120	.002	1.9
JUL 27...	—	120	150	—	—	56	13	3.7	.100	.003	—
SEP 25...	—	110	160	—	—	86	20	5.1	.150	—	—

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 26...	1.5	3.8	.420	.380	980	120	2	34	24	<1	<1
NOV 21...	—	—	1.10	1.00	630	<50	—	51	41	<1	<1
JAN 23...	3.0	10	1.50	1.50	95	—	3	54	—	<2	—
FEB 22...	—	—	.250	.260	560	80	—	42	37	<1	<2
APR 06...	—	—	.390	.400	260	<50	—	27	23	<1	<.5
MAY 08...	—	—	.280	.230	330	<50	—	36	31	<1	<.5
JUN 11...	2.0	4.9	.610	.500	1600	<50	5	57	42	<1	<.5
JUL 27...	—	—	.930	.860	1200	<50	—	56	44	<1	<.5
SEP 25...	—	—	1.30	.810	2000	<50	—	75	52	3	2

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT 26...	190	190	<3	<3	6	<5	<5	<5	11	<5
NOV 21...	450	450	<3	<3	<5	<5	<5	<5	13	<5
JAN 23...	500	—	<3	—	<5	—	<5	—	10	—
FEB 22...	130	120	<3	<3	34	<5	<5	<5	7	12
APR 06...	210	210	<3	<3	<5	<5	<5	<5	<5	<5
MAY 08...	200	190	<3	<3	<5	<5	<5	<5	<5	<5
JUN 11...	270	270	<3	<3	14	<5	<5	<5	14	<5
JUL 27...	430	430	4	<3	13	<5	5	<5	12	<5
SEP 25...	530	520	<3	<3	<5	<5	<5	<10	17	<5

05534050 DES PLAINES RIVER AT LOCKPORT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 26...	1400	<50	<50	<50	52	17	<.1	18	7	<3
NOV 21...	1300	<50	<50	<50	70	26	—	5	5	<3
JAN 23...	110	—	<50	—	78	—	<.1	10	—	<3
FEB 22...	870	<50	<50	<50	44	26	—	23	<5	<3
APR 06...	530	<50	<50	<50	61	45	—	<5	<5	<3
MAY 08...	720	75	<50	<50	50	15	—	<5	<5	<3
JUN 11...	2000	<50	<50	<50	130	37	<.1	10	<5	<3
JUL 27...	1500	51	<50	<50	96	28	—	23	<5	<3
SEP 25...	2400	<50	<50	<50	140	46	—	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 26...	<3	480	460	<5	<5	<100	<50	.00	<1	2
NOV 21...	<3	1300	1300	<5	<5	—	—	.01	—	0
JAN 23...	—	1500	—	<5	—	<100	—	.01	5	1
FEB 22...	<3	350	340	<5	<5	<100	<50	.01	—	0
APR 06...	<3	550	550	<5	<5	150	110	.01	—	1
MAY 08...	<3	450	440	<5	<5	120	<100	.00	—	0
JUN 11...	<3	670	660	<5	<5	<100	<50	.01	<1	0
JUL 27...	<3	1100	1100	<5	<5	<100	<50	.00	—	1
SEP 25...	<3	1500	1500	<5	<10	<100	<50	.00	—	0

05534500 NORTH BRANCH CHICAGO RIVER AT DEERFIELD, IL

LOCATION.--Lat 42°09'10", long 87°49'07", in SW¼SE¼ sec.34, T.43 N., R.12 E., Lake County, Hydrologic Unit 07120003, on right bank at upstream side of bridge on Lake-Cook Road, 1.7 mi southeast of Deerfield, 5.7 mi upstream from Skokie River, and at mile 64.7.

DRAINAGE AREA.--19.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1952 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.88 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark).

REMARKS.--Water-discharge records poor.

AVERAGE DISCHARGE.--32 years, 15.0 ft^3/s, 10.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 756 ft^3/s July 22, 1982, gage height, 10.93 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 290 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 22	1745	300	8.95	Apr. 22	Unknown	298	8.93
Feb. 13	Unknown	*415	*9.69				

Minimum daily discharge, 0.20 ft^3/s Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	5.0	27	3.1	2.7	14	17	43	28	2.4	.54	.46
2	.91	6.1	16	3.1	2.8	13	15	30	22	2.0	.71	.34
3	.72	4.3	12	3.2	3.0	12	29	33	14	1.7	.98	.32
4	2.3	2.9	10	3.4	2.9	11	43	35	10	1.6	.79	.20
5	2.2	2.4	10	3.7	2.8	10	32	26	6.5	1.4	.88	.20
6	2.0	2.2	14	3.7	2.7	9.7	25	20	9.6	1.8	1.2	.24
7	1.7	2.1	12	3.5	2.6	9.3	21	14	15	1.5	5.1	.56
8	2.9	1.9	9.9	3.3	2.6	9.0	17	11	9.3	1.3	3.7	.61
9	1.7	1.8	8.9	3.2	3.2	8.6	16	9.7	10	1.8	1.7	.66
10	1.7	1.9	8.3	3.1	4.7	8.2	15	9.0	7.6	5.0	1.2	.42
11	1.5	2.0	97	3.2	26	8.7	13	8.6	6.0	12	.97	.37
12	5.3	1.8	210	3.0	160	10	52	8.1	4.7	5.6	.88	.21
13	3.7	1.7	101	2.9	320	11	40	11	8.0	3.2	.89	3.0
14	2.7	1.6	83	2.9	110	19	31	7.1	5.8	2.5	.90	5.4
15	2.3	2.3	87	2.9	57	120	70	6.6	4.7	2.1	1.0	2.2
16	2.0	2.6	35	2.9	42	140	100	5.7	4.3	1.9	.84	1.5
17	1.8	2.1	21	2.8	36	52	80	6.2	5.4	1.7	2.2	1.1
18	1.8	2.2	15	2.8	52	40	56	10	9.8	1.5	2.0	.91
19	1.6	7.8	10	2.7	73	60	41	15	5.0	1.7	1.1	.89
20	2.3	20	8.1	2.6	48	205	30	11	4.3	3.0	.81	.83
21	2.7	13	7.2	2.5	37	130	24	8.5	4.1	2.4	.73	.89
22	113	5.3	6.5	2.5	29	100	240	120	34	1.5	.67	.61
23	75	143	5.8	2.5	30	83	160	63	20	1.1	.76	1.3
24	15	76	4.9	2.5	27	76	65	31	8.0	1.2	.41	.71
25	7.7	36	4.5	2.6	24	60	48	148	5.8	.97	.38	10
26	4.3	22	4.1	2.7	21	50	28	70	4.4	1.6	.31	9.8
27	2.8	45	3.9	2.8	18	44	32	40	6.2	1.2	.45	3.3
28	2.1	221	3.7	2.9	16	36	27	200	3.7	.72	.66	2.7
29	1.8	118	3.6	2.8	15	30	39	110	2.5	.75	.26	2.3
30	1.9	55	3.4	2.7	---	24	95	56	2.9	.74	.56	2.0
31	2.1	---	3.3	2.6	---	20	---	38	---	.72	.51	---
TOTAL	270.28	809.0	846.1	91.1	1171.0	1423.5	1501	1204.5	281.6	68.60	34.09	54.03
MEAN	8.72	27.0	27.3	2.94	40.4	45.9	50.0	38.9	9.39	2.21	1.10	1.80
MAX	113	221	210	3.7	320	205	240	200	34	12	5.1	10
MIN	.72	1.6	3.3	2.5	2.6	8.2	13	5.7	2.5	.72	.26	.20
CFSM	.44	1.37	1.39	.15	2.05	2.33	2.54	1.97	.48	.11	.06	.09
IN.	.51	1.53	1.60	.17	2.21	2.69	2.83	2.27	.53	.13	.06	.10

CAL YR 1983 TOTAL 7326.14 MEAN 20.1 MAX 380 MIN .47 CFSM 1.02 IN. 13.83
WTR YR 1984 TOTAL 7754.80 MEAN 21.2 MAX 320 MIN .20 CFSM 1.08 IN. 14.64

05534500 NORTH BRANCH CHICAGO RIVER AT DEERFIELD, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1964-77 are published in Water-Resources Investigations 78-22 and 79-23 as site NCCC 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 18...	0700	17002	17002	2.2	800	7.2	10.0	11	6.7	21	400
NOV 22...	0700	17002	17002	5.7	881	7.2	5.5	22	8.7	24	2500
JAN 12...	1000	17002	17002	E3.0	1370	7.1	.0	28	9.4	22	9800
FEB 21...	0830	17002	17002	E37	986	7.6	2.0	13	12.1	13	1600
MAR 26...	0730	17002	17002	50	852	7.3	3.0	18	11.4	16	810
MAY 14...	0700	17002	17002	7.1	821	7.3	12.5	27	7.1	27	2200
JUL 03...	0700	17002	17002	1.7	958	7.2	20.5	82	4.1	44	1500
AUG 20...	0730	17002	17002	.83	698	6.7	24.5	34	4.1	32	770
SEP 26...	0730	17002	17002	14	752	6.9	14.0	74	5.2	37	940

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT 18...	250	61	59	28	26	76	73	5.0	5.3	81	110
NOV 22...	--	86	--	39	--	72	--	4.3	--	120	96
JAN 12...	--	100	--	48	--	170	--	3.8	--	120	260
FEB 21...	--	66	--	31	--	77	--	3.0	--	67	130
MAR 26...	--	63	--	30	--	79	--	2.8	--	67	120
MAY 14...	320	72	70	36	35	61	58	2.6	2.3	76	94
JUL 03...	360	84	80	41	39	82	82	3.6	2.6	77	120
AUG 20...	--	63	--	27	--	93	--	5.2	--	110	130
SEP 26...	230	58	55	25	23	74	77	6.1	5.3	110	89

E Estimated.

05534500 NORTH BRANCH CHICAGO RIVER AT DEERFIELD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
OCT 18...	18	7	.10	.100	<.001	--	--	1200	100	38	33
NOV 22...	38	7	1.4	.130	<.001	--	--	550	--	51	--
JAN 12...	24	6	1.0	5.50	.006	--	--	520	--	61	--
FEB 21...	27	4	1.5	.120	<.001	--	--	730	--	43	--
MAR 26...	20	5	1.3	.040	<.001	.080	.040	500	--	27	--
MAY 14...	51	15	.40	.100	<.001	.110	.040	890	<50	39	32
JUL 03...	120	21	.50	.170	.001	.240	.080	3000	<50	66	50
AUG 20...	69	9	.40	.340	<.001	.270	.110	1200	--	55	--
SEP 26...	95	16	1.4	.120	<.001	.350	.250	3600	<50	67	50

DATE	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT 18...	<1	<1	130	130	<3	<3	<5	<5	<5	<5
NOV 22...	<1	--	110	--	<3	--	<5	--	<5	--
JAN 12...	<2	--	100	--	<3	--	<5	--	<5	--
FEB 21...	<1	--	60	--	<3	--	<5	--	<5	--
MAR 26...	<1	--	67	--	<3	--	<5	--	<5	--
MAY 14...	<1	<.5	110	97	<3	<3	<5	<5	<5	<5
JUL 03...	<1	<1	140	130	4	<3	9	<5	6	<5
AUG 20...	<1	--	270	--	<3	--	<5	--	<5	--
SEP 26...	3	2	210	210	<3	3	<5	<5	<5	<5

05534500 NORTH BRANCH CHICAGO RIVER AT DEERFIELD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT 18...	6	5	820	<50	<50	<50	200	180	<5	10
NOV 22...	6	--	1100	--	<50	--	75	--	<5	--
JAN 12...	6	--	410	--	<50	--	88	--	<5	--
FEB 21...	7	--	850	--	<50	--	45	--	<5	--
MAR 26...	<5	--	690	--	<50	--	34	--	<5	--
MAY 14...	8	<5	1600	75	<50	<50	100	76	<5	6
JUL 03...	11	5	3600	<50	<50	<50	150	86	17	<5
AUG 20...	10	--	1900	--	<50	--	170	--	<5	--
SEP 26...	14	9	4200	<50	<50	<50	99	47	<5	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 18...	<3	<3	230	220	<5	<5	<50	<50	.00	1
NOV 22...	<3	--	300	--	<5	--	<100	--	.00	0
JAN 12...	<3	--	340	--	<5	--	<50	--	.00	0
FEB 21...	<3	--	180	--	<5	--	<50	--	.00	0
MAR 26...	<3	--	170	--	<5	--	<100	--	.00	0
MAY 14...	<3	<3	220	210	<5	<5	130	<100	.00	0
JUL 03...	<3	<3	310	300	6	<5	<100	<50	.00	0
AUG 20...	<3	--	320	--	<5	--	<50	--	.00	0
SEP 26...	<3	<3	360	360	<5	<5	<100	<50	.00	1

BEST COPY AVAILABLE

05535000 SKOKIE RIVER AT LAKE FOREST, IL

LOCATION.--Lat 42°13'57", long 87°50'41", in NW¼SW¼ sec.4, T.43 N., R.12 E., Lake County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on State Highway 60 at Lake Forest and at mile 13.1.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1952, records published with those for streams in the St. Lawrence River basin (WSP 1237).

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 648.75 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--33 years, 12.2 ft³/s, 12.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 435 ft³/s July 22, 1982, gage height, 8.35 ft; no flow for many days in 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 120 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 22	1830	158	4.84
Nov. 23	1030	140	4.55
Nov. 28	0300	158	4.84
Dec. 11	--	150	Unknown
Feb. 13	0230	*195	*5.39
Apr. 22	1615	187	5.27
June 22	1015	174	5.08

Minimum daily discharge, 0.25 ft³/s Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	7.7	22	3.2	2.3	8.7	9.6	34	20	2.4	.52	.64
2	1.1	12	19	3.2	2.4	7.0	8.6	25	17	2.2	.55	.46
3	1.7	8.9	17	3.1	2.8	6.3	10	24	14	2.3	.78	.64
4	4.9	6.2	16	3.4	2.7	5.7	20	27	6.3	1.9	.86	.41
5	1.7	4.5	16	3.7	2.4	5.0	19	22	4.7	1.6	.94	.34
6	.88	3.6	21	3.6	2.4	4.4	15	20	6.7	1.8	6.2	.25
7	.82	3.0	16	3.3	2.4	4.1	12	14	14	1.5	34	2.2
8	3.1	2.8	12	3.1	2.4	3.8	8.8	9.2	7.1	1.4	23	2.1
9	1.0	2.7	10	2.9	2.8	3.5	8.4	7.9	7.2	1.5	14	2.3
10	.63	2.4	9.0	2.8	4.0	3.3	7.5	7.3	6.1	3.2	11	.67
11	.54	3.8	70	2.7	11	3.2	6.7	7.1	3.5	21	9.4	.41
12	12	2.5	110	2.7	77	3.5	24	6.8	2.9	5.0	4.3	.34
13	4.6	1.9	45	2.7	170	4.3	34	9.2	11	2.8	1.5	25
14	2.6	1.8	58	2.7	102	5.1	26	7.1	4.5	2.0	1.3	18
15	1.4	2.4	50	2.7	53	38	39	6.0	2.5	1.6	1.2	5.3
16	.98	4.1	35	2.7	37	60	53	5.5	2.5	1.4	1.0	2.1
17	.87	2.4	26	2.7	30	27	47	4.8	6.5	1.1	14	1.4
18	.76	1.9	19	2.7	36	22	35	6.8	9.1	.95	3.3	1.5
19	.74	9.9	15	2.6	58	25	27	8.9	4.0	.82	1.5	.89
20	2.4	25	11	2.5	41	90	23	7.4	2.5	.80	1.0	1.6
21	3.6	15	9.0	2.4	33	66	19	5.7	1.9	.76	.86	.64
22	77	8.8	7.7	2.5	28	51	118	45	94	.69	1.1	.59
23	61	94	6.8	2.6	27	44	116	40	37	.67	.86	.81
24	23	43	6.0	2.7	29	46	58	24	21	.70	.64	2.0
25	17	25	5.6	2.8	23	38	36	57	17	.67	.46	65
26	14	22	5.2	2.7	21	30	27	34	14	2.3	.36	22
27	11	45	4.7	2.8	20	27	28	23	13	1.4	.30	14
28	5.1	126	4.3	2.7	14	[illegible]	30	81	8.5	.67	.58	6.5
29	3.4	60	4.0	2.6	9.0	21	37	67	4.4	.56	.41	3.6
30	2.5	30	3.6	2.5	---	19	74	33	3.2	.57	.46	2.6
31	1.6	---	3.4	2.5	---	15	---	24	---	.55	.30	---
TOTAL	262.63	578.3	657.3	87.8	845.6	711.9	976.6	693.7	366.1	66.8	136.68	184.29
MEAN	8.47	19.3	21.2	2.83	29.2	23.0	32.6	22.4	12.2	[illegible]	4.41	6.14
MAX	77	126	110	3.7	170	90	118	81	94	21	34	65
MIN	.54	1.8	3.4	2.4	2.3	3.2	6.7	4.8	1.9	.55	.30	.25
CFSM	.65	1.48	1.63	.22	2.25	1.77	2.51	1.72	.94	.17	.34	.47
IN.	.75	1.65	1.88	.25	2.42	2.04	2.79	1.99	1.05	.19	.39	.53

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CAL YR 1983   TOTAL   5559.06     MEAN   15.2   MAX   248   MIN   .48   CFSM  1.17   IN.  15.91
WTR YR 1984   TOTAL   5567.71     MEAN   15.2   MAX   170   MIN   .25   CFSM  1.17   IN.  15.93
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05535070 SKOKIE RIVER NEAR HIGHLAND PARK, IL

LOCATION.--Lat 42°09'34", long 87°47'52", in NW1/4SE1/4 sec.35, T.43 N., R.12 E., Lake County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Clavey Road in Highland Park, and at mile 7.3.

DRAINAGE AREA.--21.1 mi².

PERIOD OF RECORD.--August 1967 to current year.

REVISED RECORDS.--WSP 2115: 1968. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.83 ft National Geodetic Vertical Datum of 1929 (city of Highland Park bench mark).

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--17 years, 22.3 ft³/s, 14.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 724 ft³/s Dec. 3, 1982, gage height, 8.46 ft; minimum daily, 0.78 ft³/s Oct. 13, 14, 29, 1979, Sept. 6, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1938 reached a stage of 10.6 ft, discharge not determined, from information furnished by Highland Park City Engineer.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 22	1745	*381	*7.42	Feb. 13	0430	346	7.28
Nov. 28	0300	296	7.03	Apr. 22	Unknown	300	7.05
Dec. 11	2300	307	7.09				

Minimum daily discharge, 0.79 ft³/s Oct. 7, Aug. 26, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	26	45	6.6	4.7	16	15	52	30	3.9	1.3	1.8
2	1.0	36	40	6.2	4.8	13	14	40	25	3.2	1.3	1.5
3	1.6	19	33	6.0	5.6	13	17	31	20	3.2	1.7	1.2
4	6.5	11	32	6.6	5.2	13	29	37	12	3.4	1.9	1.2
5	1.8	8.2	33	7.0	4.8	13	28	26	8.1	2.5	2.2	.79
6	1.0	6.2	48	6.8	4.5	11	21	23	11	4.2	13	1.0
7	.79	5.4	35	6.2	4.5	10	18	17	20	2.3	54	4.1
8	6.5	4.9	26	5.8	4.5	9.3	14	11	11	1.6	31	6.5
9	2.2	5.0	24	5.4	4.8	8.5	13	9.3	9.3	2.3	17	4.2
10	1.2	3.8	21	5.2	7.0	8.0	12	8.3	9.7	6.5	14	2.3
11	1.0	6.6	131	5.0	20	7.8	10	8.0	5.7	64	13	1.7
12	31	5.3	194	5.0	105	8.2	33	7.5	4.4	13	8.8	1.8
13	11	5.1	89	5.0	266	8.0	48	12	13	5.0	3.4	32
14	4.2	4.5	105	5.0	138	10	36	8.5	6.5	3.9	2.0	33
15	3.2	4.5	106	5.0	76	58	55	6.7	5.0	3.4	2.0	11
16	1.8	8.1	66	5.0	56	90	74	6.3	4.5	3.2	1.6	4.9
17	2.2	5.3	49	5.0	46	45	60	5.8	9.3	2.2	20	3.2
18	2.0	4.5	38	5.0	53	35	45	10	20	1.6	4.2	3.3
19	1.6	25	33	4.8	73	36	39	19	7.4	1.6	2.0	2.8
20	5.6	50	25	4.6	55	128	32	12	4.5	8.5	1.5	3.0
21	9.2	32	20	4.5	43	100	29	7.8	3.4	3.9	1.2	2.5
22	185	19	17	4.6	36	75	250	78	80	2.7	1.6	2.1
23	147	172	14	4.7	34	59	180	68	55	2.0	1.2	7.4
24	46	99	12	4.6	34	59	110	39	28	2.5	1.0	3.6
25	26	53	10	4.7	29	48	70	106	23	1.8	.91	131
26	19	43	8.6	4.8	27	41	45	62	17	4.2	.79	52
27	16	85	8.0	5.4	26	37	47	38	18	3.3	1.3	27
28	8.7	227	7.5	5.1	28	32	50	129	13	2.1	1.6	17
29	6.8	113	7.2	4.8	19	27	60	110	6.5	1.8	1.5	11
30	5.0	64	6.9	4.7	---	24	95	53	5.0	1.6	1.5	11
31	3.8	---	6.7	4.7	---	21	---	39	---	1.4	.91	---
TOTAL	560.89	1151.4	1290.9	163.8	1214.4	1063.8	1549	1080.2	485.3	166.8	209.41	385.89
MEAN	18.1	38.4	41.6	5.28	41.9	34.3	51.6	34.8	16.2	5.38	6.76	12.9
MAX	185	227	194	7.0	266	128	250	129	80	64	54	131
MIN	.79	3.8	6.7	4.5	4.5	7.8	10	5.8	3.4	1.4	.79	.79
CFSM	.86	1.82	1.97	.25	1.99	1.63	2.45	1.65	.77	.25	.32	.61
IN.	.99	2.03	2.28	.29	2.14	1.88	2.73	1.90	.86	.29	.37	.68

CAL YR 1983 TOTAL 9030.12 MEAN 24.7 MAX 416 MIN .79 CFSM 1.17 IN. 15.92
WTR YR 1984 TOTAL 9321.79 MEAN 25.5 MAX 266 MIN .79 CFSM 1.21 IN. 16.43

05535500 WEST FORK OF NORTH BRANCH CHICAGO RIVER AT NORTHBROOK, IL

LOCATION.--Lat 42°08'18", long 87°50'04", in SW¼SE¼ sec.4, T.42 N., R.12 E., Cook County, Hydrologic Unit 07120003, on left bank at upstream side of bridge on State Highway 68 at Northbrook and at mile 7.9.

DRAINAGE AREA.--11.5 mi².

PERIOD OF RECORD.--August 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.98 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark).

REMARKS.--Records good. Diurnal fluctuation at low flow caused by sewage-treatment plant.

AVERAGE DISCHARGE.--32 years, 12.8 ft³/s, 15.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s July 22, 1982, gage height, 9.66 ft; no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 320 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 22	1745	*646	*7.81	July 11	0230	323	5.57
Feb. 13	0200	431	6.54				

Minimum daily discharge, 3.1 ft³/s July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	27	14	5.6	5.0	7.6	11	23	17	6.0	3.3	5.5
2	5.2	25	12	5.5	5.4	7.0	9.8	18	13	6.1	3.3	4.4
3	4.0	12	10	5.6	5.7	7.2	20	20	11	6.1	3.3	4.1
4	5.4	9.2	9.8	6.3	5.6	7.5	27	21	9.7	6.0	3.2	5.2
5	4.6	7.6	12	6.6	5.3	7.8	23	14	9.2	6.3	3.2	5.4
6	4.4	6.8	23	6.6	5.1	7.5	17	12	17	9.7	4.1	3.3
7	4.2	6.3	14	6.1	4.9	7.3	14	10	14	6.5	26	4.8
8	10	6.1	11	5.6	5.1	7.1	12	9.2	12	6.4	9.0	8.9
9	4.2	5.8	10	5.6	6.3	6.9	12	9.0	11	7.1	6.1	4.5
10	3.8	7.3	9.5	5.4	9.0	6.8	11	9.0	8.1	16	4.9	4.1
11	4.0	7.3	137	5.6	18	6.6	11	8.7	6.9	71	4.0	4.1
12	9.8	5.6	106	5.2	115	6.6	32	7.8	6.9	10	3.6	4.2
13	7.3	5.2	36	5.0	227	7.0	30	12	8.0	6.6	3.7	17
14	5.4	5.2	61	5.2	57	9.7	22	8.1	6.9	5.7	3.7	6.6
15	4.8	7.1	45	5.2	32	63	45	7.3	7.1	4.7	3.7	4.9
16	4.6	8.7	24	5.2	24	73	61	6.8	6.5	4.5	3.8	3.6
17	4.6	6.4	17	5.1	20	26	49	6.8	8.4	3.9	4.0	3.8
18	4.6	6.1	13	5.0	29	19	32	11	13	4.1	3.6	3.7
19	4.6	20	11	4.9	41	27	23	23	7.2	3.7	3.6	3.7
20	9.8	33	10	4.8	27	103	16	13	6.3	3.8	3.8	3.9
21	6.6	18	9.5	4.7	20	69	13	9.1	6.2	4.3	3.9	4.2
22	250	11	9.2	4.7	17	56	174	83	33	3.8	3.8	4.4
23	80	156	9.0	4.7	14	40	90	36	16	3.9	4.0	13
24	24	42	8.4	4.9	13	39	35	17	11	3.6	3.9	4.9
25	13	20	7.9	5.0	12	31	23	93	7.5	3.4	4.1	92
26	9.8	14	7.3	5.2	11	24	17	37	6.7	7.8	3.9	16
27	8.4	82	7.0	5.3	9.7	20	19	20	11	4.0	6.6	7.4
28	8.1	144	6.6	5.4	9.4	18	16	144	6.9	3.3	5.3	5.6
29	7.3	39	6.4	5.3	8.6	15	23	75	6.4	3.1	4.4	4.8
30	6.3	21	6.1	5.0	---	13	62	30	7.5	3.3	4.5	5.1
31	6.1	---	5.8	4.9	---	12	---	20	---	3.5	4.5	---
TOTAL	530.7	764.7	668.5	165.2	762.1	750.6	949.8	813.8	311.4	238.2	152.8	263.1
MEAN	17.1	25.5	21.6	5.33	26.3	24.2	31.7	26.3	10.4	7.68	4.93	8.77
MAX	250	156	137	6.6	227	103	174	144	33	71	26	92
MIN	3.8	5.2	5.8	4.7	4.9	6.6	9.8	6.8	6.2	3.1	3.2	3.3
CFSM	1.49	2.22	1.88	.46	2.29	2.10	2.76	2.29	.90	.67	.43	.76
IN.	1.72	2.47	2.16	.53	2.47	2.43	3.07	2.63	1.01	.77	.49	.85

CAL YR 1983	TOTAL	7173.5	MEAN	19.7	MAX	485	MIN	3.1	CFSM	1.71	IN.	23.20
WTR YR 1984	TOTAL	6370.9	MEAN	17.4	MAX	250	MIN	3.1	CFSM	1.51	IN.	20.61

05536000 NORTH BRANCH CHICAGO RIVER AT NILES, IL

LOCATION.--Lat 42°00'44", long 87°47'45", in SW¼SE¼ sec.30, T.41 N., R.13 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Touhy Avenue in Niles, 3.6 mi downstream from West Fork of North Branch, 7.9 mi upstream from North Shore Channel, and at mile 51.4.

DRAINAGE AREA.--100 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1952, records published with those for streams in the St. Lawrence River basin (WSP 1207, 1237).

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 601.99 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good. Diurnal fluctuation at low flow caused by sewage-treatment plants.

AVERAGE DISCHARGE.--34 years, 93.8 ft^3/s, 12.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,210 ft^3/s June 11, 1967, gage height, 9.83 ft; minimum daily, 0.1 ft^3/s Sept. 30, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,210 ft^3/s Oct. 23, gage height, 8.05 ft, from floodmark; minimum daily, 14 ft^3/s Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	150	250	51	41	88	116	272	206	43	19	24
2	24	208	204	50	44	79	104	195	163	38	23	25
3	23	153	177	49	50	73	125	172	114	36	22	27
4	21	120	154	52	49	68	195	196	95	38	23	19
5	28	84	143	53	47	68	181	157	77	39	22	29
6	27	73	198	52	46	64	147	133	71	45	21	23
7	22	67	168	50	45	63	125	113	86	46	111	22
8	33	60	133	48	47	61	110	98	69	41	131	42
9	30	48	116	46	50	59	102	78	78	37	103	49
10	24	57	105	45	65	58	95	73	58	51	67	47
11	19	66	406	44	110	56	89	69	48	330	45	33
12	124	55	825	43	328	54	157	63	43	144	38	25
13	93	50	588	44	815	55	234	81	52	93	33	119
14	60	48	490	45	786	56	187	61	43	75	27	99
15	44	62	503	46	560	173	247	56	44	57	24	79
16	38	83	334	45	395	546	355	52	43	47	22	59
17	33	69	252	44	278	277	363	48	56	45	22	42
18	29	56	210	43	273	197	287	45	55	42	45	33
19	29	103	170	42	351	195	231	123	69	46	36	29
20	39	194	130	41	301	502	191	129	57	153	23	28
21	63	181	115	40	246	568	163	80	46	129	19	27
22	459	124	105	40	216	472	538	429	114	37	19	27
23	1080	659	93	40	191	359	816	634	189	28	19	80
24	475	654	84	40	168	340	580	269	133	27	18	57
25	292	325	76	42	148	292	372	442	102	23	15	363
26	220	214	71	45	128	249	243	528	87	34	14	319
27	152	317	65	47	113	220	201	265	103	46	15	134
28	117	815	61	48	104	200	184	487	76	33	22	90
29	99	667	58	46	92	177	193	777	64	25	26	66
30	83	387	55	43	---	150	345	487	51	22	22	50
31	74	---	53	42	---	131	---	295	---	21	21	---
TOTAL	3878	6149	6392	1406	6087	5950	7276	6907	2492	1871	1067	2066
MEAN	125	205	206	45.4	210	192	243	223	83.1	60.4	34.4	68.9
MAX	1080	815	825	53	815	568	816	777	206	330	131	363
MIN	19	48	53	40	41	54	89	45	43	21	14	19
CFSM	1.25	2.05	2.06	.45	2.10	1.92	2.43	2.23	.83	.60	.34	.69
IN.	1.44	2.29	2.38	.52	2.26	2.21	2.71	2.57	.93	.70	.40	.77

CAL YR 1983 TOTAL 56710 MEAN 155 MAX 1150 MIN 18 CFSM 1.55 IN. 21.10
WTR YR 1984 TOTAL 51541 MEAN 141 MAX 1080 MIN 14 CFSM 1.41 IN. 19.17

05536000 NORTH BRANCH CHICAGO RIVER AT NILES, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-22 and 79-23 as site NCC 07.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 18...	1000	17002	17002	29	830	7.6	14.5	7.0	7.2	17	310
NOV 22...	1030	17002	17002	126	841	7.4	7.0	37	10.1	22	3200
JAN 18...	0830	17002	17002	E43	1970	7.3	.0	2.0	10.2	16	290
FEB 21...	1030	17002	17002	240	1210	7.6	3.0	14	11.5	18	2700
MAR 26...	1200	17002	17002	240	1090	7.3	4.5	10	11.7	18	580
MAY 09...	0700	17002	17002	85	973	7.9	11.0	21	9.5	26	5200
JUL 03...	1200	17002	17002	37	910	7.8	23.0	9.0	3.9	24	2000
AUG 20...	1130	17002	17002	23	782	6.8	23.5	4.0	7.1	21	730
SEP 26...	1130	17002	17002	297	532	7.4	16.0	58	7.4	37	960

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 18...	240	84	.00	56	56	25	25	92	91	6.8	6.8
NOV 22...	320	130	.00	75	74	34	33	75	75	5.8	5.7
JAN 18...	380	170	.00	89	87	41	40	320	320	8.9	8.8
FEB 21...	310	130	.00	74	71	34	33	110	110	4.4	4.2
MAR 26...	310	120	.00	71	69	34	33	120	110	4.0	3.8
MAY 09...	410	180	.00	89	89	45	45	83	82	4.8	4.4
JUL 03...	320	120	.00	70	72	32	33	90	89	6.2	6.0
AUG 20...	230	0	.00	55	54	24	23	81	83	6.2	6.3
SEP 26...	160	56	.00	43	39	18	15	53	53	6.0	5.1

E Estimated.

05536000 NORTH BRANCH CHICAGO RIVER AT NILES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 18...	160	78	120	.7	7	6	6.0	.240	.003	1.9	2.1
NOV 22...	192	92	95	.5	41	9	4.4	.220	<.001	.98	1.2
JAN 18...	212	96	450	.6	5	4	6.0	.840	.001	.56	1.4
FEB 21...	188	73	190	.3	30	4	2.6	.240	.001	.86	1.1
MAR 26...	188	71	190	.3	28	7	1.9	.250	<.001	.85	1.1
MAY 09...	224	84	130	.4	28	8	1.9	.100	.002	1.4	1.5
JUL 03...	192	65	140	.5	20	7	1.2	.330	.010	1.5	1.8
AUG 20...	296	75	110	.6	8	1	2.3	.390	.001	1.1	1.5
SEP 26...	104	48	66	.4	130	20	2.9	.300	.002	2.0	2.3

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
OCT 18...	8.1	1.10	1.00	260	210	1	29	27	<1	<.5
NOV 22...	5.6	.720	.860	570	57	1	40	35	<1	<1
JAN 18...	7.4	1.20	1.10	130	51	1	57	53	<2	<2
FEB 21...	3.7	.220	.240	610	170	1	48	43	<1	<2
MAR 26...	3.0	.270	.220	560	<50	2	27	22	<1	<.5
MAY 09...	3.4	.320	.260	390	<50	1	31	31	<1	<.5
JUL 03...	3.0	.610	.520	380	<50	3	42	41	<1	<2
AUG 20...	3.8	.400	.580	160	<50	5	37	34	<1	<.5
SEP 26...	5.2	.470	.350	3500	<50	2	52	28	2	2

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT 18...	260	260	<3	9	<5	<5	<5	<5	7	9
NOV 22...	190	190	<3	<3	<5	<5	<5	<5	7	<5
JAN 18...	210	210	<3	<3	<5	<5	<5	<5	<5	7
FEB 21...	98	95	<3	<3	<5	<5	<5	<5	<5	<5
MAR 26...	98	95	<3	<3	<5	<5	<5	<5	<5	<5
MAY 09...	160	140	<3	<3	<5	<5	<5	<5	<5	<5
JUL 03...	210	220	<3	<3	<5	<5	<5	<5	<5	<5
AUG 20...	220	220	<3	<3	6	<5	5	<5	<5	<5
SEP 26...	160	150	<3	<3	9	<5	<5	<5	30	10

05536000 NORTH BRANCH CHICAGO RIVER AT NILES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 18...	330	<50	<50	<50	59	54	<.1	7	16	<3
NOV 22...	1100	<50	<50	<50	72	43	<.1	<5	<5	<3
JAN 18...	120	<50	<50	<50	95	91	<.1	9	12	<3
FEB 21...	810	<50	<50	<50	65	48	<.1	<5	<5	<3
MAR 26...	820	<50	<50	<50	58	37	<.1	<5	<5	<3
MAY 09...	560	<50	<50	<50	68	29	<.1	<5	<5	<3
JUL 03...	500	<50	<50	<50	88	47	<.1	<5	9	<3
AUG 20...	270	80	<50	<50	68	60	<.1	<5	8	<3
SEP 26...	4400	<50	<100	--	110	18	<.1	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (0[illegible]5)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 18...	<3	430	450	<5	<5	<100	<100	.00	<1	3
NOV 22...	<3	400	400	<5	<5	110	<100	.00	<1	1
JAN 18...	<3	540	520	<5	<5	<100	<100	.01	<1	0
FEB 21...	<3	300	290	<5	<5	<50	<50	.00	<1	0
MAR 26...	<3	260	260	<5	<5	<100	<50	.00	<1	0
MAY 09...	<3	300	290	<5	<5	<100	<100	.00	2	2
JUL 03...	<3	660	660	<5	<5	<50	<50	.00	4	1
AUG 20...	<3	410	420	<5	<5	<50	<50	.00	<1	0
SEP 26...	<3	280	300	<5	<5	<100	<50	.00	3	1

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN

LOCATION.--Lat 41°34'07", long 87°31'10", in SE¼NW¼ sec.13, T.36 N., R.10 W., Lake County, Hydrologic Unit 07120003, on left bank 200 ft upstream from Hohman Street Bridge at north city limits of Munster, 0.4 mi upstream from Illinois-Indiana State line, 4.6 mi upstream from mouth of Thorn Creek, and at mile 29.6.

DRAINAGE AREA.--90.0 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
20...	1100	17002	17002	17	1030	8.1	11.0	18	4.1	44	200000
NOV											
01...	1230	17002	17002	18	1290	7.7	13.0	5.0	3.2	30	15000
DEC											
06...	0730	17002	17002	121	662	7.1	5.5	22	4.5	40	21000
FEB											
01...	0730	17002	17002	21	1540	7.4	.5	4.0	7.2	32	900
23...	0800	17002	17002	121	841	7.0	6.0	17	7.8	33	K30000
APR											
03...	0730	17002	17002	101	908	7.0	6.0	11	8.0	32	K50000
MAY											
22...	0800	17002	17002	207	---	---	15.0	7.0	2.5	30	45
JUN											
19...	0930	17002	17002	53	837	6.9	23.0	76	2.0	45	20000
AUG											
15...	0900	17002	17002	13	1180	7.2	21.5	20	2.8	30	4400
SEP											
28...	0830	17002	17002	15	1150	7.2	12.5	23	4.1	44	>20000

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
20...	380	110	.00	90	86	41	39	170	180	10	9.9
NOV											
01...	450	170	.00	110	110	42	43	130	140	9.3	9.3
DEC											
06...	280	100	.00	70	69	27	26	48	48	5.2	5.1
FEB											
01...	440	140	.00	110	110	44	43	160	160	8.0	7.8
23...	290	110	.00	75	71	29	27	53	52	4.7	4.4
APR											
03...	320	130	.00	80	80	30	30	61	62	5.7	5.6
MAY											
22...	190	68	10	48	47	17	17	31	32	2.7	2.6
JUN											
19...	310	120	.00	78	74	32	31	72	71	6.6	5.7
AUG											
15...	430	190	.00	100	100	44	43	98	98	7.4	7.0
SEP											
28...	350	120	12	83	82	36	36	110	110	9.7	9.4

K Results based on colony count outside the acceptable range (non-ideal colony count).

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 20...	268	170	190	17	—	51	13	1.80	6.70	.175	2.7
NOV 01...	276	150	160	1.2	—	32	1	1.10	3.50	.043	3.4
DEC 06...	176	100	63	1.4	—	44	7	2.10	2.00	.003	2.0
FEB 01...	304	160	210	3.1	884	12	1	1.10	5.30	.012	1.9
23...	180	94	79	.6	—	25	3	2.00	1.60	.002	2.0
APR 03...	196	110	90	.8	520	20	8	1.60	1.80	.003	1.6
MAY 22...	120	68	42	.7	—	23	20	.800	1.00	—	1.4
JUN 19...	192	86	90	3.5	—	84	13	1.80	1.40	.006	2.5
AUG 15...	244	170	120	1.4	—	55	12	1.40	1.90	.014	2.3
SEP 28...	236	110	140	4.7	—	52	11	.700	7.10	.027	5.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 20...	9.4	11	1.20	.870	1400	130	2	51	33	<1	<1
NOV 01...	6.9	8.0	.790	.660	220	<50	1	53	47	<1	<1
DEC 06...	4.0	6.1	.450	.420	1200	160	<1	49	38	<2	<2
FEB 01...	7.2	8.3	.650	.420	210	67	1	56	47	<1	<2
23...	3.6	5.6	—	.320	810	72	1	47	38	<1	<2
APR 03...	3.4	5.0	.340	.220	330	<50	2	35	30	<1	<.5
MAY 22...	2.4	3.2	.230	.100	430	<50	3	32	25	<1	<.5
JUN 19...	3.9	5.7	.400	—	3500	120	3	73	51	<1	<1
AUG 15...	4.2	5.6	.560	.520	1600	<50	3	66	53	<1	<.5
SEP 28...	12	13	1.40	1.20	1400	660	2	64	55	2	<2

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05536195 LITTLE CALUMET RIVER AT MUNSTER, IN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT										
20...	460	430	<3	<3	5	<5	<5	<5	10	<5
NOV										
01...	410	420	<3	<3	<5	<5	<5	<5	<5	<5
DEC										
06...	180	180	8	5	7	<5	<5	<5	9	9
FEB										
01...	300	300	<3	<3	<5	<5	<5	<5	5	<5
23...	150	150	<3	<3	<5	<5	<5	<5	5	<5
APR										
03...	160	170	<3	<3	<5	<5	<5	<5	<5	<5
MAY										
22...	120	110	<3	<3	6	6	<5	<5	9	<5
JUN										
19...	210	210	<3	<3	6	8	<5	<5	7	<5
AUG										
15...	370	370	3	<3	7	<5	<5	<5	6	<5
SEP										
28...	360	350	<3	<3	<5	<5	<5	<5	7	6

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)
OCT										
20...	2000	100	<100	<50	210	180	<.1	14	11	<3
NOV										
01...	810	65	<50	<50	170	200	<.1	<5	<5	<3
DEC										
06...	1600	170	<50	<50	120	99	<.1	6	<5	<3
FEB										
01...	1000	<50	<50	<50	390	380	<.1	<5	<5	<3
23...	1000	84	<50	<50	150	130	<.1	<5	<5	<3
APR										
03...	870	<50	<50	<50	150	130	<.1	<5	<5	<3
MAY										
22...	1300	170	<50	<50	200	170	<.1	10	8	5
JUN										
19...	3500	160	<50	<50	200	160	<.1	<5	<5	<3
AUG										
15...	2000	58	<50	<50	240	210	<.1	12	<5	<3
SEP										
28...	1900	990	<50	<50	200	190	<.1	<5	<5	<3

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, TOTAL (UG/L AS V) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) (00556)
OCT 20...	<3	550	540	<5	<5	140	<100	.14	<1	0
NOV 01...	<3	610	620	<5	<5	170	<100	.02	6	0
DEC 06...	<3	280	270	<5	<5	<100	<100	.02	8	2
FEB 01...	<3	530	520	<5	<5	<50	<50	.05	6	2
23...	<3	260	250	<5	<5	<100	<50	.01	6	2
APR 03...	<3	290	290	<5	<5	<50	<50	.01	<1	0
MAY 22...	3	190	180	6	<5	<100	<100	.00	5	2
JUN 19...	<3	360	340	<5	<5	140	120	.03	4	2
AUG 15...	<3	710	700	<5	<5	<100	<50	.01	2	0
SEP 28...	<3	620	600	<5	<5	<100	<100	.03	9	1

05536215 THORN CREEK AT GLENWOOD, IL

LOCATION.--Lat 41°31'50", long 87°36'20", in SW¼SE¼ sec.9, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on right bank 20 ft downstream from Baltimore and Ohio Chicago Terminal Railroad bridge, 0.7 mi north of Chicago Heights, 0.8 mi south of Glenwood, 1.0 mi upstream from Deer Creek, and at mile 9.2.

DRAINAGE AREA.--24.7 mi^2.

PERIOD OF RECORD.--May 1949 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1437: 1955. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.97 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Figures of discharge include about 13 ft^3/s pumped from ground-water sources for municipal supply and about 5 ft^3/s of ground-water pumpage for industrial use.

AVERAGE DISCHARGE.--35 years, 37.5 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft^3/s Aug. 17, 1968, gage height, 11.26 ft; minimum daily, 6.0 ft^3/s July 4, Aug. 21, Sept. 5, 11, 25, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 750 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 15	2200	*1530	*10.29	May 22	1930	783	9.16

Minimum daily discharge, 11 ft^3/s Jan. 13, 15-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	27	12	13	30	30	28	36	21	21	34
2	15	18	24	13	21	31	28	24	31	22	21	16
3	17	18	22	13	24	30	81	29	27	22	27	15
4	17	16	33	14	18	29	76	30	26	20	22	16
5	18	16	35	15	15	29	48	22	28	21	20	18
6	17	15	51	14	14	27	37	19	24	22	21	16
7	18	16	33	13	13	26	30	20	24	22	21	16
8	21	17	27	12	13	26	28	20	24	20	21	17
9	16	16	26	13	14	25	28	18	102	22	85	18
10	17	36	24	12	25	25	26	18	28	22	149	16
11	19	26	227	12	45	24	24	17	23	61	28	16
12	60	18	129	12	179	24	73	15	23	25	21	14
13	24	17	49	11	317	25	55	21	31	24	21	25
14	21	17	119	12	105	27	42	18	47	22	18	16
15	19	18	67	11	71	299	81	17	26	21	18	15
16	18	22	35	11	60	625	178	16	31	22	18	13
17	19	18	25	11	50	108	114	15	21	20	17	14
18	19	16	21	11	57	69	68	15	21	21	15	13
19	19	24	21	11	60	123	47	16	21	23	14	14
20	57	39	18	11	47	352	38	101	19	22	15	14
21	41	22	18	12	39	145	34	28	44	22	14	14
22	95	20	16	12	36	115	205	315	55	20	15	14
23	43	155	16	12	35	97	112	241	32	21	15	35
24	26	35	16	17	34	90	51	64	25	41	15	16
25	21	24	16	15	32	92	37	86	26	22	14	57
26	19	21	15	16	29	70	32	91	23	40	14	20
27	19	141	16	15	29	64	34	46	22	24	17	15
28	18	141	15	13	26	56	38	316	24	22	17	15
29	16	48	16	13	29	43	32	175	24	21	16	14
30	15	32	13	13	---	37	41	68	22	21	15	14
31	17	---	12	13	---	32	---	45	---	22	16	---
TOTAL	777	1039	1182	395	1450	2795	1748	1954	910	751	761	550
MEAN	25.1	34.6	38.1	12.7	50.0	90.2	58.3	63.0	30.3	24.2	24.5	18.3
MAX	95	155	227	17	317	625	205	316	102	61	149	57
MIN	15	15	12	11	13	24	24	15	19	20	14	13

CAL YR 1983 TOTAL 14914 MEAN 40.9 MAX 752 MIN 12
WTR YR 1984 TOTAL 14312 MEAN 39.1 MAX 625 MIN 11

05536235 DEER CREEK NEAR CHICAGO HEIGHTS, IL

LOCATION.--Lat 41°31'15", long 87°35'25", 0.1 mi west of center of sec.14, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on Joe Orr Road, 0.4 mi east of Cottage Grove Avenue, 1.0 mi north of U.S. Highway 30, 1.5 mi northeast of Chicago Heights, and at mile 2.8.

DRAINAGE AREA.--23.1 mi^2.

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 615.95 ft National Geodetic Vertical Datum of 1929. See WSP 1707 or 1727 for history of changes prior to Aug. 13, 1958.

REMARKS.--Records fair. Undetermined amount of flow diverted for irrigation.

AVERAGE DISCHARGE.--36 years, 17.5 ft^3/s, 10.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft^3/s July 13, 1957, gage geight, 11.75 ft; no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 13	1300	386	10.03	May 22	2215	437	10.27
Mar. 16	0030	*623	*10.92	May 28	2230	266	9.13

Minimum discharge, 0.03 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.96	6.4	.28	.33	30	4.9	25	11	1.5	.54	3.8
2	.33	1.4	3.6	.27	.60	30	4.3	3.3	7.6	1.3	.56	1.8
3	.40	1.8	3.3	.27	.74	28	48	3.4	7.1	1.3	.77	1.9
4	.40	2.7	5.3	.28	.68	19	56	4.6	9.5	1.5	.78	1.8
5	.68	2.0	14	.60	.50	16	31	3.3	11	1.4	.77	1.6
6	.40	1.1	20	.45	.45	13	8.2	2.5	44	1.4	.79	1.4
7	.25	.92	23	.37	.44	11	6.1	2.0	11	1.3	2.5	1.3
8	1.0	.95	15	.31	.44	8.8	5.0	1.7	2.5	1.2	1.8	1.2
9	.33	.79	39	.29	1.0	8.0	34	2.7	43	1.3	6.5	1.9
10	.25	2.1	5.7	.27	6.3	7.3	11	3.5	9.6	1.2	60	1.7
11	.64	3.9	54	.26	35	6.8	3.7	17	3.3	22	32	1.8
12	4.3	4.2	180	.26	132	6.6	15	24	14	3.3	2.1	1.7
13	3.7	2.0	69	.26	351	7.7	25	2.6	38	3.3	1.3	2.6
14	2.4	.97	88	.26	217	9.5	22	1.7	130	1.0	1.1	2.1
15	1.4	.78	79	.26	91	83	16	1.4	48	.81	1.1	1.8
16	.72	32	29	.26	56	423	107	1.2	42	.86	1.0	1.4
17	.43	5.4	6.0	.25	43	195	93	.99	25	.79	1.2	1.3
18	.50	1.1	3.9	.25	38	78	52	.97	14	.76	1.2	1.1
19	1.2	1.7	2.6	.25	57	58	38	1.1	2.6	.74	1.2	1.0
20	4.7	3.8	2.1	.25	38	214	20	35	1.4	.70	1.3	.88
21	11	3.8	2.4	.25	28	180	6.0	28	1.3	.70	1.2	1.1
22	23	1.4	2.0	.26	23	100	72	139	1.7	.65	1.0	1.3
23	24	53	.90	.28	20	72	76	286	1.4	.60	1.2	5.8
24	9.8	15	.40	.38	14	92	34	90	23	2.9	1.5	2.1
25	4.9	5.5	.29	.50	8.2	76	7.7	58	4.4	.89	1.3	7.6
26	2.7	4.1	.29	.80	8.6	72	5.7	100	2.2	2.2	1.1	2.8
27	1.7	23	.29	.58	8.8	52	38	48	1.9	1.2	1.4	2.0
28	1.4	123	.29	.70	23	47	17	140	1.6	.75	1.6	1.8
29	1.1	28	.28	.60	46	30	3.8	206	1.5	.62	1.1	1.5
30	.63	52	.28	.43	---	17	17	79	1.4	.56	.85	1.5
31	.96	---	.28	.33	---	5.7	---	41	---	.56	.68	---
TOTAL	105.51	379.37	656.60	11.06	1249.08	1998.4	877.4	1352.96	515.0	59.29	131.44	61.58
MEAN	3.40	12.6	21.2	.36	43.1	64.5	29.2	43.6	17.2	1.91	4.24	2.05
MAX	24	123	180	.80	351	423	107	286	130	22	60	7.6
MIN	.25	.78	.28	.25	.33	5.7	3.7	.97	1.3	.56	.54	.88
CFSM	.15	.55	.92	.02	1.87	2.79	1.26	1.89	.74	.08	.18	.09
IN.	.17	.61	1.06	.02	2.01	3.22	1.41	2.18	.83	.10	.21	.10

CAL YR 1983 TOTAL 6166.22 MEAN 16.9 MAX 408 MIN .19 CFSM .73 IN. 9.93
WTR YR 1984 TOTAL 7397.69 MEAN 20.2 MAX 423 MIN .25 CFSM .87 IN. 11.91

05536255 BUTTERFIELD CREEK AT FLOSSMOOR, IL

LOCATION.--Lat 41°32'25", long 87°38'55", in NE¼NW¼ sec.8, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of Reigle Road Bridge at Homewood city limits, 0.1 mi north of Holbrook Road, 0.8 mi east of Flossmoor, and at mile 1.2.

DRAINAGE AREA.--23.5 mi².

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1437: 1948(M), 1953, 1955. WDR IL-75-1: Drainage area. WDR IL-81-2: 1955(M), 1957(M), 1968(M), 1974(M).

GAGE.--Water-stage recorder. Datum of gage is 616.80 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--36 years, 17.7 ft³/s, 10.23 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft³/s May 22, 1982, gage height, 11.97 ft; no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 ft³/s Mar. 16, gage height, 10.29 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	1.1	10	.50	.52	6.4	11	8.4	17	.67	.18	4.3
2	.10	.94	7.4	.50	.80	7.9	10	6.6	11	.53	.00	.67
3	.00	1.5	5.4	.50	2.7	8.4	31	7.3	7.7	.50	.55	.07
4	.00	1.8	10	.70	4.3	7.6	54	11	5.5	.51	.21	.14
5	.00	1.2	9.2	1.4	3.0	6.2	32	6.8	4.3	.47	.00	.11
6	.00	1.3	24	1.0	2.3	6.6	20	5.4	3.4	.70	.00	.41
7	.00	1.0	16	.90	1.7	6.0	14	4.6	2.7	.71	.31	.03
8	.00	.81	9.8	.78	1.4	4.6	11	4.0	4.0	.30	.00	.00
9	.00	.61	7.1	.64	1.9	4.2	9.8	3.6	67	.23	5.0	2.2
10	.18	3.4	6.2	.52	5.0	3.9	8.4	3.3	22	.40	99	.78
11	.23	6.0	130	.45	48	3.7	7.4	3.1	8.3	12	16	.26
12	8.1	2.0	149	.40	226	3.6	27	2.9	5.4	2.2	4.3	.02
13	3.9	.97	53	.46	282	4.3	39	4.9	4.7	1.0	1.7	3.5
14	2.0	.47	85	.38	94	5.2	23	4.2	5.1	.53	.89	2.8
15	1.2	.47	68	.30	50	156	29	2.9	3.2	.34	.48	1.1
16	.68	2.0	23	.23	36	527	57	2.4	4.6	.20	.28	.34
17	.42	1.4	17	.16	30	105	52	2.2	2.6	.11	.46	.04
18	.28	.88	11	.10	32	60	36	2.1	1.8	.00	.18	.02
19	.18	.62	7.6	.06	44	77	24	2.0	1.3	.00	.02	.00
20	8.1	8.7	6.2	.02	27	220	17	33	1.2	.00	.00	.00
21	22	6.0	7.0	.00	19	119	13	14	16	.00	.00	.00
22	26	2.0	5.4	.04	15	86	110	111	40	.00	.01	.00
23	21	79	3.0	.14	13	68	88	122	22	.00	.00	.26
24	7.7	31	2.0	.35	11	69	40	37	8.2	3.3	.00	.84
25	4.0	10	1.3	.60	8.4	57	35	35	4.2	1.1	.00	17
26	2.6	6.2	1.0	.90	7.6	48	17	46	2.4	5.7	.00	5.8
27	1.8	63	.90	1.4	6.6	40	13	22	2.4	3.5	.14	1.9
28	1.5	139	.72	1.5	4.7	34	13	159	1.5	1.2	.34	.59
29	.98	44	.60	1.2	5.4	23	9.8	126	1.1	.52	.27	.74
30	.83	18	.56	.80	---	17	14	47	.89	.36	.00	.12
31	1.2	---	.54	.60	---	14	---	27	---	.11	.00	---
TOTAL	115.22	435.37	677.92	17.53	983.32	1798.6	855.4	866.7	281.49	37.19	130.32	44.04
MEAN	3.72	14.5	21.9	.57	33.9	58.0	28.5	28.0	9.38	1.20	4.20	1.47
MAX	26	139	149	1.5	282	527	110	159	67	12	99	17
MIN	.00	.47	.54	.00	.52	3.6	7.4	2.0	.89	.00	.00	.00
CFSM	.16	.62	.93	.02	1.44	2.47	1.21	1.19	.40	.05	.18	.06
IN.	.18	.69	1.07	.03	1.56	2.85	1.35	1.37	.45	.06	.21	.07

CAL YR 1983 TOTAL 7232.15 MEAN 19.8 MAX 735 MIN .00 CFSM .84 IN. 11.45
WTR YR 1984 TOTAL 6243.10 MEAN 17.1 MAX 527 MIN .00 CFSM .73 IN. 9.88

05536265 LANSING DITCH NEAR LANSING, IL

LOCATION.--Lat 41°31'40", long 87°31'45", at north boundary of sec.17, T.35 N., R.15 E., Cook County, Hydrologic Unit 07120003, on right bank at upstream side of bridge on 202nd Street, 0.2 mi west of Indiana State line, 0.5 mi east of Burnham Avenue, 2 mi south of Lansing, and at mile 2.7.

DRAINAGE AREA.--8.84 mi^2.

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-79-2: 1975-78.

GAGE.--Water-stage recorder. Datum of gage is 607.16 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 20, 1948, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Some diurnal fluctuation caused by pumping operations above station.

AVERAGE DISCHARGE.--36 years, 8.04 ft^3/s, 12.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 461 ft^3/s May 10 or 11, 1948, gage height, 9.24 ft, from floodmark; maximum gage height, 10.18 ft Oct. 11, 1954; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 146 ft^3/s May 22, gage height, 7.68 ft; minimum daily, 0.01 ft^3/s Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	5.9	8.8	2.5	2.1	12	3.4	2.7	7.3	.05	2.1	6.6
2	3.4	5.7	7.7	1.6	2.6	11	3.6	2.0	4.0	.04	5.5	4.7
3	2.7	5.2	9.3	2.4	5.0	9.5	11	2.1	.85	.04	5.1	4.5
4	2.0	5.4	11	3.5	4.1	7.3	21	3.8	1.4	.04	.23	4.5
5	2.0	6.3	10	4.0	2.9	5.0	13	6.5	2.6	.04	.01	4.6
6	2.0	4.0	19	3.9	3.2	4.3	8.4	5.8	2.8	.07	1.6	4.6
7	2.0	2.9	15	3.8	2.6	3.5	4.9	5.5	1.4	.04	6.7	4.6
8	3.4	5.6	11	3.4	2.4	3.4	5.1	5.2	4.4	.05	6.2	3.9
9	4.1	5.6	9.3	2.8	2.6	3.3	3.9	5.0	14	.05	6.9	.37
10	3.8	7.4	9.8	3.2	3.4	3.1	2.9	4.9	1.9	.07	31	2.3
11	3.4	5.9	39	3.2	10	3.1	1.5	5.2	2.1	3.0	5.1	4.8
12	3.2	7.2	49	3.1	30	3.2	3.6	4.8	3.9	3.7	.22	4.7
13	4.9	6.8	23	2.9	80	3.4	7.0	5.5	2.5	4.0	1.3	5.2
14	5.2	5.1	36	2.8	40	3.6	10	4.2	4.2	3.5	3.8	4.6
15	6.6	5.2	24	2.0	21	18	15	1.8	4.6	3.3	3.3	4.5
16	7.0	5.9	11	2.4	16	93	41	4.6	4.3	3.2	1.7	4.6
17	5.4	5.2	7.0	2.6	13	44	34	4.1	.31	2.7	4.0	4.4
18	5.2	5.2	4.0	2.5	13	21	23	4.0	1.7	.99	2.8	4.4
19	5.4	7.0	2.7	2.4	17	22	15	4.1	3.3	4.1	.05	4.4
20	7.2	7.7	3.0	2.3	12	88	7.7	17	3.2	4.3	1.3	4.2
21	8.5	6.3	3.5	2.2	9.3	53	5.3	10	8.4	6.5	4.0	4.2
22	14	4.2	3.0	1.8	7.8	36	23	62	3.2	6.7	3.9	4.7
23	12	21	2.0	2.4	6.6	32	26	93	1.5	3.8	2.2	8.6
24	5.6	11	2.2	2.9	5.9	32	12	40	4.0	3.6	1.5	4.9
25	6.1	6.8	1.0	3.2	5.1	23	6.6	19	3.8	6.0	4.0	6.9
26	5.7	5.9	.51	3.0	4.5	17	4.3	28	2.2	5.9	3.9	5.8
27	5.6	19	2.0	3.6	3.8	15	3.4	12	.25	5.0	3.7	4.8
28	5.6	44	3.8	3.0	3.4	13	3.7	47	.09	.21	1.9	4.5
29	6.6	19	3.5	1.9	14	7.8	2.3	54	.06	4.9	4.1	4.5
30	7.2	12	3.2	2.5	---	4.9	4.3	15	.05	2.8	3.6	4.5
31	6.6	---	2.8	2.0	---	4.3	---	8.3	---	.02	4.0	---
TOTAL	165.5	264.4	337.11	85.8	343.3	599.7	325.9	487.1	94.31	78.71	125.71	139.87
MEAN	5.34	8.81	10.9	2.77	11.8	19.3	10.9	15.7	3.14	2.54	4.06	4.66
MAX	14	44	49	4.0	80	93	41	93	14	6.7	31	8.6
MIN	2.0	2.9	.51	1.6	2.1	3.1	1.5	1.8	.05	.02	.01	.37
CFSM	.60	.00	1.23	.31	1.33	2.18	1.23	1.78	.36	.29	.46	.53
IN.	.70	1.11	1.42	.36	1.44	2.52	1.37	2.05	.40	.33	.53	.59

CAL YR 1983	TOTAL	3447.11	MEAN	9.44	MAX	189	MIN	.51	CFSM	1.07	IN.	14.51
WTR YR 1984	TOTAL	3047.41	MEAN	8.33	MAX	93	MIN	.01	CFSM	.94	IN.	12.82

05536275 THORN CREEK AT THORNTON, IL

LOCATION.--Lat 41°34'05", long 87°36'30", near center of N½ sec.34, T.36 N., R.14 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Margaret Street in Thornton, 1.0 mi downstream from North Creek, and at mile 4.2.

DRAINAGE AREA.--104 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1707: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 586.43 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 18, 1948, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good. Some diurnal fluctuation caused by pumping operations above station. Figures of discharge include about 16 ft³/s pumped from ground-water sources for municipal supply and an undetermined amount of ground-water pumpage for industrial use.

AVERAGE DISCHARGE.--36 years, 101 ft³/s, 13.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft³/s July 13, 1957, gage height, 16.00 ft; maximum gage height, 17.06 ft June 14, 1981; minimum daily discharge, 4.4 ft³/s Sept. 11, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 5, 1947, reached a stage of 14.34 ft (from floodmark), discharge, 4,200 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 13	1615	1040	9.62	May 23	0830	1160	10.30
Mar. 16	1115	*2060	*13.52	May 29	0230	965	9.16
Mar. 20	1845	942	9.01				

Minimum daily discharge, 21 ft³/s Jan. 13, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	28	115	28	25	54	85	116	127	34	25	78
2	25	28	75	28	32	60	79	73	104	29	23	48
3	29	31	68	31	62	66	165	74	92	30	37	39
4	28	27	94	35	52	63	291	108	82	34	31	33
5	29	33	86	36	43	64	196	79	75	31	28	34
6	29	32	165	36	39	58	125	77	89	31	26	31
7	29	26	152	30	32	51	96	58	80	34	25	31
8	40	25	109	28	29	46	82	53	62	31	31	30
9	32	24	109	28	29	43	85	49	247	29	45	37
10	30	47	93	25	46	42	96	50	132	28	379	30
11	37	62	348	23	130	40	59	54	72	106	137	26
12	93	50	787	22	443	38	108	90	58	49	56	29
13	48	43	412	21	962	35	188	67	94	44	37	47
14	33	31	372	23	762	42	150	54	203	34	34	50
15	29	29	436	23	358	172	183	45	104	33	38	41
16	26	53	210	22	232	1710	395	37	106	29	29	34
17	28	62	113	22	184	941	445	37	83	28	32	32
18	25	35	86	21	179	403	291	38	56	28	41	28
19	22	48	74	25	240	315	189	35	43	28	33	27
20	60	86	64	22	181	858	154	195	38	29	27	27
21	129	67	62	22	138	804	109	152	45	36	25	26
22	176	49	62	25	113	534	361	333	175	31	28	25
23	154	319	53	25	100	391	461	1050	103	29	28	59
24	83	200	43	32	86	413	241	529	86	76	25	40
25	50	96	41	32	74	339	148	297	55	54	26	114
26	37	70	41	30	65	308	118	391	45	64	28	74
27	33	174	41	36	60	245	118	228	44	57	32	42
28	29	640	37	28	46	217	154	523	40	40	45	34
29	33	297	36	27	44	160	94	854	35	32	31	37
30	32	174	35	28	---	126	122	397	34	33	31	37
31	29	---	30	26	---	98	---	202	---	31	29	---
TOTAL	1479	2886	4449	840	4706	8736	5388	6345	2609	1202	1442	1220
MEAN	47.7	96.2	144	27.1	165	282	180	205	87.0	38.8	46.5	40.7
MAX	176	640	787	36	962	1710	461	1050	247	106	379	114
MIN	22	24	30	21	25	35	59	35	34	28	23	25
CFSM	.46	.92	1.38	.26	1.59	2.71	1.73	1.97	.84	.37	.45	.39
IN.	.53	1.03	1.59	.30	1.71	3.12	1.93	2.27	.93	.43	.52	.44

CAL YR 1983	TOTAL	41895	MEAN	115	MAX	1700	MIN	21	CFSM 1.11	IN.	14.99
WTR YR 1984	TOTAL	41382	MEAN	113	MAX	1710	MIN	21	CFSM 1.09	IN.	14.80

05536275 THORN CREEK AT THORNTON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-22 and 79-23 as site HBD 04.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
NOV												
01...	1030	17002	17002	25	[illegible]	7.8	13.0	5.0	8.2	23	250	--
DEC												
06...	1100	17002	17002	144	1020	7.1	5.0	18	8.0	23	4300	--
FEB												
01...	0930	17002	17002	25	2590	7.0	3.5	5.0	9.5	27	91	--
23...	1100	17002	17002	94	1420	7.3	6.5	10	10.6	20	120	450
APR												
03...	0930	17002	17002	70	1520	7.1	7.0	8.0	9.7	22	360	--
MAY												
22...	1000	17002	17002	216	--	--	19.0	22	5.6	40	36	--
JUN												
19...	0800	17002	17002	49	1670	7.2	23.0	66	5.7	39	2200	500
AUG												
15...	1130	17002	17002	34	1730	7.2	21.5	15	5.6	21	220	590
SEP												
28...	1000	17002	17002	33	1380	7.4	12.5	12	7.7	16	2700	520

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
NOV												
01...	160	--	70	--	230	--	14	--	390	240	--	--
DEC												
06...	93	--	42	--	99	--	6.9	--	180	140	--	--
FEB												
01...	150	--	69	--	350	--	15	--	390	420	--	--
23...	110	100	48	46	120	110	7.1	6.7	190	--	.4	808
APR												
03...	110	--	47	--	160	--	9.0	--	210	210	--	--
MAY												
22...	76	--	35	--	110	--	6.8	--	150	140	--	--
JUN												
19...	130	120	56	51	180	160	12	11	270	240	--	--
AUG												
15...	140	140	62	60	160	160	12	11	300	210	.7	1270
SEP												
28...	130	120	54	52	210	200	14	13	340	240	--	--

05536275 THORN CREEK AT THORNTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
NOV												
01...	30	3	6.3	1.20	.019	--	--	--	--	--	130	--
DEC												
06...	40	8	3.2	2.20	.004	--	--	--	--	--	810	--
FEB												
01...	8	2	3.9	5.60	.007	--	--	--	3.80	2.50	140	--
23...	17	1	4.3	.870	.003	.73	1.6	5.9	1.50	1.40	420	120
APR												
03...	20	6	3.4	1.60	.003	--	--	--	1.60	1.20	460	--
MAY												
22...	75	18	2.5	.510	--	--	--	--	2.00	1.70	840	--
JUN												
19...	73	10	6.3	.470	.004	--	--	--	3.20	3.00	2800	120
AUG												
15...	36	6	6.0	.280	.002	1.3	1.6	7.6	2.70	2.90	770	<50
SEP												
28...	20	5	7.0	.400	.002	--	--	--	5.40	5.50	<100	<100

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
NOV												
01...	--	47	--	<1	--	820	--	<3	--	<5	--	<5
DEC												
06...	--	47	--	<2	--	300	--	<3	--	6	--	<5
FEB												
01...	--	53	--	<2	--	660	--	<3	--	<5	--	<5
23...	3	53	49	<1	<1	280	280	<3	<3	<5	<5	<5
APR												
03...	--	25	--	<1	--	350	--	<3	--	<5	--	<5
MAY												
22...	--	34	--	<1	--	370	--	<3	--	<5	--	<5
JUN												
19...	--	66	49	<2	<1	520	470	<3	<3	9	13	<5
AUG												
15...	3	56	51	<1	<.5	670	650	4	<3	6	8	<5
SEP												
28...	--	29	28	<1	<1	420	410	<3	<3	<5	11	<10

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05536275 THORN CREEK AT THORNTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)
NOV 01...	--	5	--	280	--	<50	--	68	--	--	8	--
DEC 06...	--	7	--	1100	--	<50	--	80	--	--	<5	--
FEB 01...	--	6	--	280	--	<50	--	140	--	--	7	--
23...	<5	<5	<5	630	<50	<50	<50	73	69	<.1	<5	<5
APR 03...	--	<5	--	510	--	<50	--	90	--	--	<5	--
MAY 22...	--	13	--	1300	--	<50	--	180	--	--	<5	--
JUN 19...	<5	11	7	2600	280	<50	<50	120	78	--	<5	<5
AUG 15...	<5	8	<5	890	<50	<50	<50	110	92	<.1	18	19
SEP 28...	<5	<5	<5	730	390	<50	<50	64	74	--	<10	<5

DATE	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)
NOV 01...	<3	--	1900	--	<5	--	<100	--	.03	--	1
DEC 06...	<3	--	650	--	<5	--	<100	--	.01	--	2
FEB 01...	<3	--	1700	--	<5	--	<100	--	.02	--	1
23...	<3	<3	640	610	<5	<5	<50	<50	.01	<1	0
APR 03...	<3	--	820	--	<5	--	<50	--	.01	--	2
MAY 22...	<3	--	690	--	<5	--	<100	--	.00	--	3
JUN 19...	<3	<3	1400	1200	<5	<5	180	130	.90	--	2
AUG 15...	<3	<3	1600	1600	<5	<5	<100	<100	.00	<1	0
SEP 28...	<3	11	750	700	<10	<5	<50	<50	.00	--	0

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05536290 LITTLE CALUMET RIVER AT SOUTH HOLLAND, IL

LOCATION.--Lat 41°36'25", long 87°35'52", in NE¼SE¼ sec.15, T.36 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on Cottage Grove Avenue in South Holland, 2.0 mi downstream from Thorn Creek, and at mile 23.0.

DRAINAGE AREA.--208 mi^2.

PERIOD OF RECORD.--October 1947 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1507: 1950, 1953. WDR IL-81-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 575.00 ft National Geodetic Vertical Datum of 1929 (Illinois Department of Transportation bench mark). Prior to Oct. 27, 1947, nonrecording gage and Oct. 27, 1947, to Mar. 31, 1981, water-stage recorder at site 1.4 mi upstream at same datum. Apr. 1 to Nov. 8, 1981, nonrecording gage at same site and datum. Nov. 17, 1947, to Nov. 19, 1970, auxiliary water-stage recorder at Dixmoor, 4.7 mi downstream; prior to Nov. 17, 1947, nonrecording gage at the Dixmoor site read twice daily.

REMARKS.--Records poor. Flow from upper Little Calumet River is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 6.6 mi below station, diverts the entire flow to the Mississippi River basin.

AVERAGE DISCHARGE.--37 years, 185 ft^3/s, 12.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,440 ft^3/s July 14, 1957, gage height, 20.11 ft, site then in use; maximum gage height, 20.20 ft June 14, 1981; minimum daily discharge, 7.9 ft^3/s Oct. 6, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1947, reached a stage of 19.24 ft, from floodmarks, discharge, 4,760 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,550 ft^3/s Mar. 16, gage height, 16.46 ft; minimum daily, 30 ft^3/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	37	280	60	51	103	209	213	380	56	35	173
2	38	43	186	60	65	112	182	161	300	50	32	110
3	36	49	155	63	112	122	231	147	240	52	37	62
4	35	68	186	74	102	122	514	204	200	52	53	55
5	34	76	177	82	88	123	400	165	183	53	40	55
6	31	68	291	84	83	111	286	150	177	62	37	48
7	30	58	302	78	69	101	219	126	160	55	35	44
8	42	50	239	68	62	93	184	111	130	49	52	43
9	42	47	192	60	60	87	168	99	400	42	57	60
10	31	74	196	57	88	82	192	95	263	39	534	47
11	34	110	542	53	230	79	133	94	170	203	295	33
12	158	100	1220	50	990	72	173	113	135	134	112	35
13	114	82	873	48	1600	70	356	119	153	94	67	49
14	60	66	681	46	1290	77	304	100	355	68	55	95
15	45	62	820	47	750	365	341	80	215	57	53	60
16	41	85	520	48	545	2250	625	69	200	50	45	52
17	40	109	317	48	440	2020	813	67	173	47	103	45
18	42	64	230	47	391	969	615	67	130	45	86	42
19	34	71	190	46	469	679	445	62	103	42	53	37
20	47	128	160	50	393	1320	372	289	76	44	42	38
21	291	122	150	48	304	1450	276	288	127	53	37	38
22	233	89	140	52	254	1110	547	540	354	54	40	35
23	372	480	120	55	221	844	833	1570	218	50	42	107
24	182	403	105	58	197	805	522	1310	172	128	40	101
25	106	193	90	63	169	691	354	778	102	143	40	229
26	76	124	88	61	146	660	278	772	84	88	43	176
27	61	283	88	66	136	561	240	573	78	121	43	76
28	49	1020	80	60	117	499	301	905	70	66	90	57
29	41	664	78	56	108	403	204	1400	63	48	56	51
30	44	373	74	57	---	314	242	800	55	47	48	50
31	40	---	64	54	---	250	---	500	---	42	43	---
TOTAL	2467	5198	8834	1799	9530	16544	10559	11967	5466	2134	2345	2103
MEAN	79.6	173	285	58.0	329	534	352	386	182	68.8	75.6	70.1
MAX	372	1020	1220	84	1600	2250	833	1570	400	203	534	229
MIN	30	37	64	46	51	70	133	62	55	39	32	33
CFSM	.38	.83	1.37	.28	1.58	2.57	1.69	1.86	.88	.33	.36	.34
IN.	.44	.93	1.56	.32	1.70	2.96	1.89	2.14	.98	.38	.42	.38

CAL YR 1983 TOTAL 83921 MEAN 230 MAX 2620 MIN 30 CFSM 1.11 IN. 15.01
WTR YR 1984 TOTAL 78946 MEAN 216 MAX 2250 MIN 30 CFSM 1.04 IN. 14.12

05536340 MIDLOTHIAN CREEK AT OAK FOREST, IL

LOCATION.--Lat 41°36'51", long 87°43'46", in SE¼NW¼ sec.15, T.36 N., R.13 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Kilbourn Avenue in Oak Forest, and at mile 5.9.

DRAINAGE AREA.--12.6 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1337: 1951-53. WSP 1911: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 620.41 ft National Geodetic Vertical Datum of 1929 (Cook County Highway Department bench mark).

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by small industrial plants upstream. Retention pond 1.0 mi upstream detains water during periods of heavy runoff and gradually releases water during the recession. Flow bypassed gage from Nov. 21, 1962, to Mar. 2, 1963, due to diversion 1.0 mi upstream.

AVERAGE DISCHARGE.--34 years, 11.4 ft^3/s, 12.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 627 ft^3/s Apr. 22, 1973, gage height, 7.67 ft; maximum gage height, 9.00 ft July 13, 1975; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 12	1630	210	3.91	Mar. 15	2230	*244	*4.27

Minimum daily discharge, 0.31 ft^3/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.8	60	2.4	1.6	4.7	4.0	9.2	13	1.1	1.1	21
2	.46	2.2	51	2.3	1.5	5.1	3.4	7.0	7.9	1.1	1.1	3.0
3	.31	2.1	39	2.2	1.5	8.7	22	7.5	5.7	2.0	5.4	.86
4	.60	2.3	20	2.1	1.8	5.7	45	13	4.6	2.2	3.5	.73
5	.77	2.3	14	2.1	2.3	5.1	16	7.3	5.2	1.1	4.0	.84
6	.82	2.1	22	2.1	1.9	4.9	7.5	5.6	4.3	2.2	3.2	.66
7	.69	2.0	22	2.0	1.7	4.5	4.9	4.9	2.7	1.3	.91	.69
8	1.4	2.0	16	1.9	1.6	4.1	3.7	3.7	4.2	.86	.66	.71
9	1.5	1.9	11	1.8	3.1	3.8	3.4	3.0	28	.83	3.8	7.7
10	.69	2.3	9.7	1.6	26	3.5	3.2	2.8	14	1.2	6.6	2.3
11	1.1	2.3	37	1.6	74	3.4	3.0	2.7	5.8	11	6.4	.97
12	4.0	2.3	65	1.5	167	3.3	18	2.5	4.0	3.1	3.1	.59
13	3.4	2.0	69	1.5	181	3.3	28	7.8	9.0	1.5	2.6	6.2
14	1.5	1.8	75	1.5	131	5.0	11	4.0	12	1.0	1.8	12
15	.95	1.9	78	1.8	59	54	12	2.9	5.6	.82	3.3	5.4
16	.67	2.3	74	2.1	33	212	25	2.6	4.1	.81	4.7	2.5
17	.50	2.1	66	1.9	21	162	26	2.4	2.8	.95	7.1	1.1
18	1.1	2.0	45	1.8	21	71	14	2.4	2.0	.91	4.2	.64
19	1.3	2.1	27	1.6	31	39	7.6	2.7	2.0	.78	1.3	.54
20	7.8	3.9	17	1.5	15	99	5.0	37	1.7	1.1	.74	.60
21	12	4.6	10	1.4	10	95	4.1	11	7.5	2.5	1.0	.85
22	31	3.2	5.8	1.4	8.4	58	43	39	48	.90	1.5	.79
23	26	26	5.6	1.3	7.6	46	71	70	29	.71	10	8.6
24	14	43	5.0	1.3	6.6	48	37	25	8.7	17	9.9	4.8
25	7.0	42	4.5	1.3	5.6	35	18	27	5.4	10	2.7	47
26	4.0	37	4.1	1.4	5.1	26	11	38	4.2	6.3	.99	20
27	2.8	47	3.6	1.7	5.6	25	13	15	4.0	5.4	2.9	5.1
28	2.7	73	3.3	2.4	6.2	20	35	60	3.0	2.2	4.2	2.6
29	2.7	76	3.0	2.2	3.5	11	19	83	2.0	1.2	2.1	1.8
30	2.0	68	2.8	1.9	---	5.9	16	54	1.5	1.2	1.4	1.1
31	1.7	---	2.6	1.7	---	4.8	---	28	---	1.2	.79	---
TOTAL	136.46	463.5	869.0	55.3	834.6	1076.8	529.8	581.0	251.9	84.47	102.99	161.67
MEAN	4.40	15.4	28.0	1.78	28.8	34.7	17.7	18.7	8.40	2.72	3.32	5.39
MAX	31	76	78	2.4	181	212	71	83	48	17	10	47
MIN	.31	1.8	2.6	1.3	1.5	3.3	3.0	2.4	1.5	.71	.66	.54
CFSM	.35	1.22	2.22	.14	2.29	2.75	1.40	1.48	.67	.22	.26	.43
IN.	.40	1.37	2.57	.16	2.46	3.18	1.56	1.72	.74	.25	.30	.48

CAL YR 1983	TOTAL	5838.46	MEAN	16.0	MAX	216	MIN	.31	CFSM 1.27	IN.	17.24
WTR YR 1984	TOTAL	5147.49	MEAN	14.1	MAX	212	MIN	.31	CFSM 1.12	IN.	15.20

05536500 TINLEY CREEK NEAR PALOS PARK, IL

LOCATION.--Lat 41°38'48", long 87°45'59", in SW¼SE¼ sec.32, T.37 N., R.13 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on 135th Street, 1.5 mi west of State Highway 50, 3 mi southeast of Palos Park, and at mile 1.8.

DRAINAGE AREA.--11.2 mi^2.

PERIOD OF RECORD.--July 1951 to current year. Prior to October 1952, records published with those for streams in the St. Lawrence River basin (WSP 1237).

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-81-2: 1955(M), 1957(M), 1970(M), 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 607.40 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--33 years, 9.78 ft^3/s, 11.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,930 ft^3/s Oct. 10, 1954, gage height, 10.30 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 23	1200	286	5.09	Feb. 13	0700	533	6.65
Nov. 27	2400	358	5.58	Mar. 16	0145	*708	*7.62
Dec. 11	2400	368	5.65	May 28	1430	249	4.82

No flow Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	1.5	14	1.2	.92	5.0	6.3	8.4	7.2	.58	.15	11
2	.40	2.3	10	1.2	.98	3.4	5.4	6.3	5.1	.94	.09	2.8
3	.16	4.7	8.1	1.3	1.0	4.2	21	5.8	3.8	.80	.27	1.1
4	.84	2.1	12	1.4	1.4	4.9	54	12	2.9	1.1	.17	.87
5	.49	.98	13	1.4	1.1	3.3	24	6.5	4.0	.58	.28	.73
6	.27	.72	28	1.3	.98	2.9	13	5.1	2.5	1.2	.43	.55
7	.21	.60	18	1.2	.89	2.5	8.4	4.5	1.8	.80	.22	.80
8	1.7	.49	10	1.1	.90	2.3	6.7	3.9	1.8	.45	.29	3.3
9	.84	.40	8.6	1.0	.93	2.1	6.1	3.3	7.5	.41	.40	9.0
10	.27	.33	7.6	.99	1.4	1.7	5.2	3.1	4.8	.58	30	3.8
11	.12	7.2	102	.97	29	1.5	4.3	3.1	2.1	8.0	6.1	1.6
12	4.5	3.7	112	.96	160	1.4	22	2.7	1.4	2.1	2.0	.60
13	2.6	1.8	38	.96	268	1.4	44	5.2	13	1.1	.91	.68
14	1.4	1.0	72	.98	59	1.9	22	4.4	19	.58	.55	3.0
15	.57	.84	54	1.0	32	70	27	2.9	5.0	.40	.51	1.4
16	.35	4.7	22	.96	21	312	50	2.4	3.2	.34	.27	.44
17	.22	3.4	15	.92	14	53	42	2.1	2.5	.58	.26	.16
18	.10	1.9	9.3	.86	22	30	26	2.1	1.5	.40	.26	.05
19	.08	3.4	6.2	.80	39	34	14	2.1	.94	.33	.66	.01
20	.84	22	5.2	.80	20	156	9.8	20	.61	.27	.48	.00
21	15	8.6	4.0	.88	16	77	7.6	9.2	.71	1.6	.21	.23
22	58	2.6	3.3	.93	9.2	58	85	32	20	.94	.10	.01
23	57	145	2.8	.86	7.8	49	71	36	14	.52	.85	1.6
24	12	44	2.6	.83	6.7	46	29	12	5.1	6.8	1.0	2.5
25	4.4	19	2.2	.84	5.5	34	18	15	3.7	3.2	.83	15
26	1.9	13	1.9	1.0	4.6	23	11	35	2.2	2.3	.56	13
27	.98	68	1.8	1.4	3.8	26	11	12	1.9	3.1	.39	2.2
28	1.1	153	1.6	1.3	3.4	23	42	98	1.8	1.1	.45	.60
29	1.1	44	1.5	1.1	4.1	12	14	61	1.1	.66	.49	.28
30	.84	23	1.3	1.0	---	9.0	18	24	.74	.34	.45	.09
31	1.1	---	1.2	.98	---	8.1	---	12	---	.20	.38	---
TOTAL	170.22	584.26	589.2	32.42	735.60	1058.6	717.8	452.1	141.90	41.90	50.00	77.40
MEAN	5.49	19.5	19.0	1.05	25.4	34.1	23.9	14.6	4.73	1.35	1.61	2.58
MAX	58	153	112	1.4	268	312	85	98	20	8.0	30	15
MIN	.08	.33	1.2	.80	.89	1.4	4.3	2.1	.61	.20	.09	.00
CFSM	.49	1.74	1.70	.09	2.27	3.04	2.13	1.30	.42	.12	.14	.23
IN.	.57	1.94	1.96	.11	2.44	3.52	2.38	1.50	.47	.14	.17	.26

CAL YR 1983	TOTAL	5997.97	MEAN	16.4	MAX	540	MIN	.00	CFSM	1.46	IN.	19.92
WTR YR 1984	TOTAL	4651.40	MEAN	12.7	MAX	312	MIN	.00	CFSM	1.13	IN.	15.45

05536700 CALUMET SAG CHANNEL AT SAG BRIDGE, IL

LOCATION.--Lat 41°41'45", long 87°56'11", in SE¼NE¼ sec.14, T.37 N., R.11 E., Cook County, Hydrologic Unit 07120003, at bridge on State Highway 83, 0.5 mi northwest of Sag Bridge and at mile 0.9.

DRAINAGE AREA.--389 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1965-77 are published in Water-Resources Investigations 78-22 and 79-23 as site H 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYSING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)
OCT 27...	0730	17002	17002	794	6.5	12.5	10	2.5	29	22000	250	81
DEC 05...	1030	17002	17002	971	6.8	6.0	16	2.5	36	8400	340	120
JAN 26...	0830	17002	17002	1040	6.1	2.0	180	9.4	35	K20000	260	71
FEB 22...	1300	17002	17002	960	7.3	6.0	6.0	5.7	27	2500	310	120
APR 16...	0900	17002	17002	1060	7.6	10.0	9.0	1.5	42	11000	320	120
MAY 08...	1100	17002	17002	1000	7.5	18.0	18	--	34	160	390	190
JUL 02...	0900	17002	17002	850	6.7	22.0	8.0	2.1	27	10000	240	68
26...	1300	17002	17002	718	7.0	22.5	5.0	--	15	580	220	54
SEP 10...	1130	17002	17002	639	7.1	21.5	6.0	4.6	18	120000	190	33

DATE	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 27...	.00	65	63	23	22	59	59	5.6	5.3	168	100	74
DEC 05...	.00	84	83	32	31	80	80	7.3	7.3	216	140	97
JAN 26...	.00	69	67	24	23	120	120	8.2	8.1	192	140	140
FEB 22...	.00	77	76	29	29	96	92	6.5	6.3	188	120	140
APR 16...	.00	80	78	31	30	100	110	6.5	6.5	196	140	130
MAY 08...	.00	93	91	41	40	110	110	7.9	7.9	200	160	140
JUL 02...	.00	64	61	22	22	80	79	6.6	6.3	176	110	84
26...	.00	56	54	21	20	60	59	5.0	4.9	164	83	73
SEP 10...	.00	51	49	18	17	55	54	5.2	5.1	160	82	59

K Results based on colony count outside the acceptable range (non-ideal colony count).

05536700 CALUMET SAG CHANNEL AT SAG BRIDGE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
OCT												
27...	.6	28	10	.400	5.00	.004	3.0	8.0	8.4	.620	.480	490
DEC												
05...	.5	51	12	1.10	7.60	.007	2.8	10	12	.590	.530	930
JAN												
26...	.8	40	10	.400	8.60	.001	1.4	10	10	.700	.510	500
FEB												
22...	.6	23	4	1.30	3.80	.011	1.7	5.5	6.8	.450	.360	390
APR												
16...	.6	46	9	.700	4.60	.036	1.8	6.4	7.1	.700	.480	580
MAY												
08...	.8	27	10	.400	7.70	.087	1.6	9.3	9.7	.760	.460	330
JUL												
02...	.7	18	14	.200	6.80	.016	2.5	9.3	9.5	.650	.620	250
26...	.7	5	5	.400	5.80	.029	1.3	7.1	7.5	.250	.400	160
SEP												
10...	.6	13	6	.000	5.80	.034	1.4	7.2	7.2	.640	.560	220

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT												
27...	83	2	32	22	<1	<1	250	260	<3	<3	<5	<5
DEC												
05...	90	1	44	30	<2	<2	310	310	<3	<3	7	<5
JAN												
26...	<50	2	41	29	<2	<2	280	280	<3	<3	8	<5
FEB												
22...	<50	2	42	34	<2	<.5	220	210	<3	<3	<5	<5
APR												
16...	<50	3	28	14	<1	<.5	240	240	<3	<3	8	<5
MAY												
08...	<50	1	30	17	<1	<.5	320	320	<3	<3	<5	<5
JUL												
02...	<50	3	32	22	<1	<2	250	250	<3	<3	<5	<5
26...	<50	3	29	27	<1	<1	240	230	<3	<3	<5	<5
SEP												
10...	<50	2	27	23	<1	<1	210	200	<3	<3	<5	<5

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05536700 CALUMET SAG CHANNEL AT SAG BRIDGE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 27...	<5	<5	5	<5	1300	<50	<50	<50	100	94	<.1	10
DEC 05...	<5	<5	7	<5	1500	<50	<50	<50	100	81	<.1	8
JAN 26...	<5	<5	5	<5	1200	<50	<50	<50	130	110	<.1	9
FEB 22...	<5	<5	<5	11	790	<50	<50	<50	110	100	<.1	10
APR 16...	<5	<5	<5	<5	1500	<50	<50	<50	130	110	<.1	<5
MAY 08...	<5	<5	<5	<5	1500	98	<50	<50	140	130	<.1	<5
JUL 02...	<5	<5	<5	<5	1000	69	<50	<50	110	98	<.1	<5
26...	<5	7	<5	<5	360	70	<50	<50	68	58	<.1	10
SEP 10...	<5	<5	<5	7	860	83	<50	<50	62	55	<.1	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 27...	14	<3	<3	270	260	<5	<5	<100	<50	.01	4	3
DEC 05...	<5	<3	<3	330	330	<5	<5	<100	<100	.02	5	1
JAN 26...	7	<3	<3	320	320	<5	<5	<100	<50	.01	8	1
FEB 22...	<5	<3	<3	330	290	<5	<5	<50	<50	.01	5	1
APR 16...	<5	<3	<3	310	300	<5	<5	<50	<50	.02	5	1
MAY 08...	<5	<3	<3	350	340	<5	<5	<100	<50	.01	6	1
JUL 02...	<5	<3	<3	300	290	<5	<5	<50	<50	.02	6	1
26...	8	<3	<3	300	290	8	7	<50	<50	.01	2	1
SEP 10...	<5	<5	<3	230	230	<5	<5	<100	<100	.01	13	3

05537000 CHICAGO SANITARY AND SHIP CANAL AT LOCKPORT, IL

LOCATION.--Lat 41°34'11", long 88°04'42", in SW1/4 sec.27, T.36 N., R.10 E., Will County, Hydrologic Unit 07120004, on upper end of 9-foot navigation channel at Lockport Lock and Power Plant on Chicago Sanitary and Ship Canal, 1.1 mi upstream from Des Plaines River, and 1.7 mi southwest of Lockport.

DRAINAGE AREA.--740 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1964-77 are published in the Water-Resources Investigations 78-22 and 79-23 as site GI 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 26...	0830	17002	17002	540	6.1	16.0	2.0	2.3	17	28000	190
NOV 21...	0830	17002	17002	795	4.9	15.0	5.0	6.2	21	3500	230
JAN 23...	1400	17002	17002	953	7.7	6.0	4.0	--	24	7300	240
FEB 21...	1100	17002	17002	1010	6.7	9.0	5.0	6.9	20	38000	280
APR 04...	1430	17002	17002	1040	6.6	11.0	11	1.5	29	7500	300
MAY 09...	1000	17002	17002	990	6.7	15.0	5.0	--	20	480	230
JUL 10...	0930	17002	17002	587	7.0	24.0	5.0	4.9	14	500	190
27...	0900	17002	17002	618	6.8	24.0	2.0	2.5	12	450	200
SEP 25...	0930	17002	17002	556	--	20.0	23	--	32	47000	170

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT 26...	73	.00	46	46	17	17	41	42	3.9	3.9	112
NOV 21...	68	.00	61	58	22	21	80	80	7.6	7.4	164
JAN 23...	80	.00	62	61	22	22	120	120	8.0	8.0	164
FEB 21...	98	.00	70	68	27	26	95	97	6.1	6.1	180
APR 04...	110	.00	76	73	30	28	99	98	7.4	7.3	188
MAY 09...	49	.00	83	57	37	22	77	33	6.7	4.0	184
JUL 10...	44	.00	49	47	18	17	48	49	5.1	4.6	144
27...	59	.00	50	50	18	18	51	51	4.8	4.7	140
SEP 25...	47	.00	47	45	16	15	45	44	5.1	4.9	128

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
26...	54	51	.5	220	16	8	3.60	1.40	<.001	1.5	2.9
NOV											
21...	98	85	1.2	--	12	6	3.60	4.20	<.001	1.3	5.5
JAN											
23...	100	140	1.1	--	8	1	4.20	5.80	.041	.70	6.5
FEB											
21...	96	150	.6	--	14	3	3.50	3.10	.003	1.5	4.6
APR											
04...	110	130	.8	--	27	9	4.10	4.90	.004	1.5	6.4
MAY											
09...	88	110	.8	--	10	4	3.70	--	--	--	4.4
JUL											
10...	59	58	.7	--	8	6	2.50	2.20	.012	1.5	3.7
27...	59	57	.7	--	5	3	2.00	2.80	.010	.79	3.6
SEP											
25...	58	51	.5	--	32	13	1.30	3.10	--	.50	3.6

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT										
26...	6.5	.320	.290	330	260	<1	24	19	<1	<.5
NOV										
21...	9.1	.580	.530	160	55	1	28	23	<1	<.5
JAN										
23...	11	.580	.510	220	55	2	31	27	<1	<1
FEB										
21...	8.1	.520	.410	310	56	2	39	34	<1	<2
APR										
04...	11	.590	.490	240	<50	2	19	12	<1	<.5
MAY										
09...	8.1	.400	.430	140	52	1	21	37	<1	<.5
JUL										
10...	6.2	.370	.370	130	<50	3	25	23	<1	<2
27...	5.6	.280	.430	110	<50	2	23	22	<1	<.5
SEP										
25...	4.9	.870	.430	670	76	1	42	28	2	<2

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT										
26...	170	180	<3	<3	11	5	<5	<5	8	<5
NOV										
21...	310	300	<3	<3	11	5	<5	<5	<5	<5
JAN										
23...	280	280	<3	<3	10	9	<5	<5	6	<5
FEB										
21...	200	200	<3	<3	7	<5	<5	<5	7	<5
APR										
04...	260	260	<3	<3	8	<5	<5	<5	13	<5
MAY										
09...	230	95	<3	<3	5	<5	<5	<5	<5	<5
JUL										
10...	170	170	<3	<3	<5	<5	<5	<5	<5	<5
27...	210	190	<3	<3	<5	<5	<5	<5	<5	<5
SEP										
25...	180	180	4	<3	20	6	<5	<5	17	<5

05537000 CHICAGO SANITARY AND SHIP CANAL AT LOCKPORT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)
OCT										
26...	560	<50	<50	<50	43	35	<.1	36	34	<3
NOV										
21...	460	<50	<50	<50	47	39	<.1	53	47	<3
JAN										
23...	200	<50	<50	<50	71	62	<.1	43	44	<3
FEB										
21...	490	<50	<50	<50	59	49	<.1	22	18	<3
APR										
04...	710	<50	<50	<50	120	97	<.1	22	23	<3
MAY										
09...	510	140	<50	<50	56	38	<.1	13	<5	<3
JUL										
10...	330	<50	<50	<50	35	24	<.1	16	11	<3
27...	220	52	<50	<50	38	36	<.1	24	24	<3
SEP										
25...	1100	140	<50	<50	49	46	<.1	26	21	<3

DATE	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)
OCT										
26...	<3	200	200	<5	<5	<100	<50	.01	<1	2
NOV										
21...	<3	290	280	<5	<5	140	190	.02	3	1
JAN										
23...	<3	290	290	<5	6	210	200	.02	5	2
FEB										
21...	<3	300	290	<5	<5	<100	100	.01	2	7
APR										
04...	<3	300	290	<5	<5	<100	<50	.02	5	2
MAY										
09...	<3	280	140	<5	<5	130	<50	.02	4	1
JUL										
10...	<3	240	240	<5	<5	<100	<100	.00	4	0
27...	<3	250	250	<5	<5	<100	<100	.00	2	9
SEP										
25...	<3	240	230	<5	<5	130	<100	.01	3	1

05537500 LONG RUN NEAR LEMONT, IL

LOCATION.--Lat 41°38'33", long 87°59'57", in SW¼SE¼ sec.32, T.37 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at downstream side of bridge on State Street, 2 mi south of Lemont, and at mile 5.4.

DRAINAGE AREA.--20.9 mi^2.

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WSP 1338: 1952(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 637.20 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--33 years, 16.8 ft^3/s, 10.92 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft^3/s Oct. 10, 1954, gage height, 9.91 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 260 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 23	1330	359	5.68	Feb. 13	Unknown	452	6.16
Nov. 28	0130	356	5.66	Mar. 15	2345	*567	*6.59
Dec. 11	2115	358	5.67	Mar. 20	1715	276	5.17

Minimum daily discharge, 0.34 ft^3/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	2.4	39	6.8	4.3	13	21	26	17	3.0	.90	2.3
2	.55	5.0	30	6.8	4.1	11	20	20	13	1.9	.45	1.7
3	.59	7.2	25	7.4	4.8	11	27	20	11	1.8	1.2	.93
4	.66	5.9	24	7.5	6.4	10	65	22	8.7	2.7	1.5	.74
5	.68	3.6	25	7.3	5.6	10	46	18	7.5	2.4	36	.72
6	.68	3.1	40	6.5	5.0	9.2	32	16	6.4	2.8	8.4	.46
7	.65	2.6	32	5.9	4.7	8.5	26	14	5.6	2.3	5.0	.35
8	.69	2.2	25	5.3	4.6	7.4	23	12	5.0	1.6	3.1	.97
9	.98	2.6	22	5.2	4.6	6.8	22	10	6.9	1.2	2.5	1.6
10	1.0	2.3	20	5.0	5.8	6.4	21	8.8	6.9	1.2	30	1.9
11	.97	3.8	134	4.8	30	6.0	19	8.6	4.8	3.2	7.7	1.0
12	2.5	2.7	209	4.8	100	5.7	29	7.8	4.2	1.7	3.9	1.5
13	2.0	2.3	87	4.6	295	5.6	54	9.1	41	1.0	2.7	.75
14	.99	2.1	117	4.7	119	6.0	36	9.4	115	.95	1.9	1.5
15	1.2	2.1	122	5.4	73	92	33	7.0	25	.88	1.8	.93
16	.63	3.1	57	5.0	52	344	45	6.8	18	.92	1.3	.66
17	.61	3.2	47	4.8	42	125	44	5.7	13	1.4	1.1	.49
18	.81	2.5	32	4.6	43	74	36	5.2	9.9	1.1	1.0	.44
19	.93	4.1	21	4.3	70	66	29	5.8	7.5	.83	1.0	.72
20	1.5	26	17	4.2	42	235	25	13	6.7	.81	.83	.41
21	5.1	23	15	4.2	31	156	24	10	6.4	4.2	.88	.34
22	49	13	13	4.2	27	109	132	11	24	1.6	.66	.36
23	68	227	11	4.2	24	86	141	18	56	.77	.63	2.5
24	21	144	10	4.3	21	89	62	9.9	15	11	1.3	1.9
25	12	58	9.8	4.6	18	63	41	10	8.6	8.6	1.9	9.0
26	8.0	41	8.8	5.2	15	49	31	23	5.5	3.7	.74	8.7
27	5.3	89	8.4	5.6	13	48	26	14	4.6	4.2	.73	2.4
28	4.5	265	8.0	5.0	14	47	44	67	3.3	2.0	.76	1.6
29	3.7	111	7.6	4.7	13	35	28	80	3.3	1.1	.69	1.2
30	3.3	57	7.3	4.3	---	27	44	34	3.4	.90	.70	1.2
31	2.4	---	7.0	4.2	---	24	---	23	---	.59	.60	---
TOTAL	201.43	1118.8	1230.9	161.4	1091.9	1785.6	1226	545.1	463.2	72.35	121.87	49.27
MEAN	6.50	37.3	39.7	5.21	37.7	57.6	40.9	17.6	15.4	2.33	3.93	1.64
MAX	68	269	209	7.5	295	344	141	80	115	11	36	9.0
MIN	.51	2.1	7.0	4.2	4.1	5.6	19	5.2	3.3	.59	.45	.34
CFSM	.31	1.78	1.90	.25	1.80	2.76	1.96	.84	.74	.11	.19	.08
IN.	.36	1.99	2.19	.29	1.94	3.18	2.18	.97	.82	.13	.22	.09

CAL YR 1983 TOTAL 11079.80 MEAN 30.4 MAX 593 MIN .38 CFSM 1.45 IN. 19.72
WTR YR 1984 TOTAL 8067.82 MEAN 22.0 MAX 344 MIN .34 CFSM 1.05 IN. 14.36

05537980 DES PLAINES RIVER AT ROUTE 53 AT JOLIET, IL

LOCATION.--Lat 41°32'12", long 88°04'57", in NE¼ sec.9, T.35 N., R.10 E., Will County, Hydrologic Unit 07120004, at State Highway 53 (Ruby Street) at Joliet and at mile 15.7.

DRAINAGE AREA.--1,502 mi².

PERIOD OF RECORD.--Water years 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 26...	1100	17002	17002	580	6.7	15.0	4.0	5.0	25	17000	190
NOV 21...	1130	17002	17002	903	6.6	13.0	12	6.0	21	1800	280
JAN 23...	1130	17002	17002	1000	7.0	5.0	3.0	7.8	23	4500	260
FEB 22...	1100	17002	17002	892	7.1	6.0	7.0	8.8	23	1100	270
APR 06...	1000	17002	17002	1040	6.7	10.0	4.0	4.1	29	3400	290
MAY 08...	0930	17002	17002	880	7.4	13.0	10	--	22	5300	380
JUN 11...	1130	17002	17002	770	6.7	22.5	4.0	1.7	20	9600	240
JUL 27...	1030	17002	17002	631	6.8	23.5	3.0	3.2	14	690	200
SEP 25...	1100	17002	17002	543	--	21.0	27	--	35	50000	180

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT 26...	66	.00	48	46	19	18	46	46	4.3	4.1	124
NOV 21...	110	.00	69	68	27	26	91	91	8.2	8.1	172
JAN 23...	83	.00	64	64	24	24	130	130	8.1	8.1	176
FEB 22...	96	.00	65	64	27	26	83	83	5.3	5.2	172
APR 06...	100	.00	70	68	28	28	110	110	6.5	6.3	184
MAY 08...	200	.00	86	87	40	40	77	80	5.9	6.0	180
JUN 11...	76	.00	59	58	23	22	70	69	5.9	5.8	160
JUL 27...	58	.00	51	51	18	18	54	54	5.0	4.9	144
SEP 25...	49	.00	49	46	16	15	47	47	5.2	6.0	128

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 26...	6.0	58	.4	268	26	10	3.10	.880	.001	1.1	2.0
NOV 21...	110	100	1.1	--	23	8	4.40	3.10	.003	1.6	4.7
JAN 23...	99	150	1.1	--	9	3	4.50	4.50	.006	1.0	5.5
FEB 22...	78	130	.4	--	24	3	3.20	1.70	.003	1.2	2.9
APR 06...	110	140	.7	--	24	8	2.60	4.10	.004	1.3	5.4
MAY 08...	93	110	.6	--	13	5	3.40	1.90	.012	.90	2.8
JUN 11...	80	84	.8	--	12	11	1.60	2.00	.005	1.8	3.8
JUL 27...	61	60	.6	--	7	3	2.30	2.70	.009	.86	3.6
SEP 25...	58	53	.6	--	58	16	1.50	3.00	--	1.9	4.9

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 26...	5.1	.300	.330	540	100	1	27	20	<1	<1
NOV 21...	9.1	.600	.570	320	73	1	36	29	<1	<.5
JAN 23...	10	.660	.620	190	54	2	34	29	<2	<2
FEB 22...	6.1	.900	.310	400	63	2	39	34	<1	<1
APR 06...	8.0	.500	.470	240	<50	3	21	15	<1	<.5
MAY 08...	6.2	.290	.250	220	<50	1	28	23	<1	<.5
JUN 11...	5.4	.470	.430	530	<50	4	33	25	<2	<2
JUL 27...	5.9	.320	.440	120	<50	3	24	23	<1	<.5
SEP 25...	6.4	.910	.410	1200	55	1	53	28	2	2

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT 26...	180	180	<3	<3	7	<5	<5	<5	9	<5
NOV 21...	350	350	<3	<3	12	6	<5	<5	9	<5
JAN 23...	290	290	<3	<3	13	9	<5	<5	7	<5
FEB 22...	160	160	<3	<3	8	<5	<5	<5	12	10
APR 06...	220	220	<3	<3	12	6	<5	<5	10	<5
MAY 08...	240	250	<3	<3	<5	<5	<5	<5	<5	<5
JUN 11...	240	240	<3	<3	9	<5	<5	<5	9	<5
JUL 27...	200	200	<3	<3	<5	<5	<5	<5	<5	<5
SEP 25...	190	230	4	<3	31	<5	<5	<5	51	<5

05537980 DES PLAINES RIVER AT ROUTE 53 AT JOLIET, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 26...	850	<50	<50	<50	44	26	<.1	25	24	<3
NOV 21...	780	<50	<50	<50	54	36	<.1	41	38	<3
JAN 23...	180	<50	<50	<50	62	57	<.1	40	41	<3
FEB 22...	560	<50	<50	<50	46	36	<.1	19	17	<3
APR 06...	600	<50	<50	<50	89	78	<.1	21	19	<3
MAY 08...	620	84	<50	<50	55	40	<.1	<5	10	<3
JUN 11...	910	61	<50	<50	68	50	<.1	22	15	<3
JUL 27...	250	<50	<50	<50	37	33	<.1	12	24	<3
SEP 25...	1900	140	<50	<50	63	39	<.1	28	10	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 26...	<3	290	290	<5	<5	100	<100	.01	<1	2
NOV 21...	<3	520	510	<5	<5	120	<100	.02	3	1
JAN 23...	<3	400	400	<5	<5	140	160	.01	5	1
FEB 22...	<3	290	290	<5	<5	390	<50	.01	4	0
APR 06...	<3	340	330	<5	<5	<100	<100	.02	2	0
MAY 08...	<3	320	330	<5	<5	110	<100	.00	4	1
JUN 11...	<3	330	320	<5	<5	<100	<100	.01	3	0
JUL 27...	<3	280	280	<5	<5	<50	<50	.00	<1	1
SEP 25...	<3	280	270	<5	<5	180	<100	.02	3	1

05539000 HICKORY CREEK AT JOLIET, IL

LOCATION.--Lat 41°31'10", long 88°04'10", in SW¼NE¼ sec.15, T.35 N., R.10 E., Will County, Hydrologic Unit 07120004, on right bank at Third Avenue in Joliet, 0.2 mi downstream from Spring Creek, and at mile 1.9.

DRAINAGE AREA.--107 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WDR IL 82-2: 1981(M).

GAGE.--Water-stage recorder. Datum of gage is 526.00 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1946, nonrecording gage at same site at datum 1.00 ft higher. Oct. 9, 1946, to Sept. 30, 1974, at datum 1.00 ft higher.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 86.7 ft³/s, 11.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft³/s June 13, 1981, gage height, 14.90 ft; minimum, 0.5 ft³/s Aug. 9, 16, 19, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,670 ft³/s Mar. 16, gage height, 5.97 ft; minimum, 4.8 ft³/s Aug. 30, 31, Sept. 1, 2, 3, 4, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	21	150	30	22	45	99	100	131	20	7.6	6.3
2	7.9	23	115	31	22	47	85	84	82	17	9.3	5.2
3	7.4	21	93	32	24	46	105	77	61	17	10	4.8
4	7.2	20	86	29	26	49	256	80	50	17	9.7	5.0
5	7.2	19	86	28	23	53	203	73	63	17	8.3	5.3
6	8.2	18	128	27	22	47	143	64	42	16	7.8	5.3
7	7.1	18	133	26	23	42	105	58	34	14	7.3	5.5
8	8.0	17	102	25	23	39	89	52	32	14	7.4	6.6
9	8.9	16	86	24	23	38	80	50	188	13	12	9.4
10	8.9	16	75	23	30	35	73	47	146	12	60	7.4
11	7.8	20	438	23	130	33	65	45	67	23	65	6.9
12	17	19	809	23	700	32	89	42	48	18	42	6.1
13	13	17	406	23	1640	31	216	41	39	15	17	7.3
14	12	16	521	24	740	31	156	40	39	14	12	7.5
15	10	16	445	24	421	474	128	36	43	12	9.5	7.1
16	9.4	16	262	23	306	1840	154	34	37	11	8.4	6.6
17	9.3	16	180	23	256	745	193	32	33	9.9	7.5	6.2
18	9.1	16	120	22	247	429	168	31	27	9.6	7.5	5.9
19	7.5	19	90	22	347	380	130	31	23	9.3	7.0	5.9
20	12	52	75	22	244	1180	106	72	24	9.8	6.5	5.6
21	32	68	62	23	190	789	90	78	23	9.9	5.9	5.2
22	110	49	52	23	156	575	365	68	226	9.5	6.1	5.0
23	133	399	47	23	112	474	534	287	314	8.7	5.9	10
24	75	296	45	23	90	495	300	169	119	10	5.3	7.6
25	53	178	43	23	78	398	193	142	67	10	5.6	23
26	36	122	40	24	68	330	141	195	46	16	5.2	25
27	27	219	38	26	62	303	145	129	35	15	5.4	18
28	22	732	37	24	50	277	214	340	28	13	5.9	11
29	17	398	36	23	49	214	141	499	24	11	5.5	9.0
30	15	236	33	22	---	166	130	281	22	9.5	5.4	7.8
31	19	---	32	22	---	139	---	186	---	8.6	4.8	---
TOTAL	724.9	3093	4865	760	6124	9776	4896	3463	2113	409.8	382.8	247.5
MEAN	23.4	103	157	24.5	211	315	163	112	70.4	13.2	12.3	8.25
MAX	133	732	809	32	1640	1840	534	499	314	23	65	25
MIN	7.1	16	32	22	22	31	65	31	22	8.6	4.8	4.8
CFSM	.22	.96	1.47	.23	1.97	2.94	1.52	1.05	.66	.12	.11	.08
IN.	.25	1.08	1.69	.26	2.13	3.40	1.70	1.20	.73	.14	.13	.09

CAL YR 1983 TOTAL 43776.9 MEAN 120 MAX 2420 MIN 6.6 CFSM 1.12 IN. 15.22
WTR YR 1984 TOTAL 36855.0 MEAN 101 MAX 1840 MIN 4.8 CFSM .94 IN. 12.81

05539000 HICKORY CREEK AT JOLIET, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1968-77 are published in Water-Resources Investigations 78-22 and 79-23 as site GG 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
26...	1000	17002	17002	36	866	7.4	10.0	21	9.9	23	4300	330
NOV												
21...	1000	17002	17002	75	1420	7.0	8.0	21	11.3	21	5600	480
JAN												
17...	1000	17002	17002	E23	1390	7.8	.0	2.0	13.4	8	2700	550
FEB												
21...	0830	17002	17002	195	731	7.3	2.5	22	12.6	14	5800	270
29...	0730	17002	17002	53	1000	7.9	.0	4.0	15.6	5	760	410
APR												
06...	0830	17002	17002	140	828	7.4	7.0	7.0	12.0	24	3900	310
MAY												
09...	0800	17002	17002	49	990	7.8	12.0	3.0	--	10	800	440
JUN												
05...	1400	17002	17002	62	896	7.6	25.5	14	--	22	6000	370
AUG												
06...	1200	17002	17002	8.0	1280	--	28.0	17	--	31	2000	430
30...	1030	17002	17002	5.6	1460	8.0	25.0	17	10.5	23	350	470

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT												
26...	75	75	34	34	72	69	5.1	5.0	110	95	.3	514
NOV												
21...	110	110	52	51	150	150	8.6	8.4	180	210	--	--
JAN												
17...	120	120	59	59	140	140	6.3	6.3	170	190	.3	1000
FEB												
21...	63	62	29	29	49	49	3.1	2.9	75	86	--	--
29...	95	93	45	44	71	72	3.5	3.9	120	--	.2	600
APR												
06...	72	70	34	33	53	54	3.4	3.2	92	91	--	--
MAY												
09...	95	95	49	48	72	72	4.0	3.9	120	110	--	--
JUN												
05...	84	84	40	39	63	64	4.2	4.0	110	83	.0	600
AUG												
06...	92	89	52	51	130	130	6.9	6.8	160	190	--	--
30...	98	97	55	55	140	140	6.9	6.9	150	200	.3	896

E Estimated.

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05539000 HICKORY CREEK AT JOLIET, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 26...	23	5	1.8	.080	<.001	1.0	1.1	2.9	.320	.300	660	74
NOV 21...	36	10	2.6	.540	<.001	--	--	--	.730	.660	420	<50
JAN 17...	1	1	2.6	2.10	.012	.50	2.6	5.2	.660	.660	60	<50
FEB 21...	30	3	3.8	.240	<.001	--	--	--	.140	.100	940	140
29...	5	4	2.8	.630	.004	.57	1.2	4.0	.210	.240	170	110
APR 06...	30	6	3.3	.250	<.001	--	--	--	.130	.110	690	<50
MAY 09...	4	4	1.7	.050	<.001	--	--	--	.140	.110	120	<50
JUN 05...	40	7	4.3	.210	.005	1.1	1.3	5.6	.320	.270	1100	<50
AUG 06...	25	17	.20	.130	--	--	--	--	.360	.230	180	<50
30...	28	9	1.1	.200	.011	1.0	1.2	2.3	.290	.350	630	67

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 26...	1	37	33	<1	<.5	180	180	<3	<3	<5	<5	<5
NOV 21...	--	57	50	<1	<1	340	340	<3	<3	<5	<5	<5
JAN 17...	2	54	51	<1	<1	270	280	<3	<3	<5	<5	<5
FEB 21...	--	44	37	<1	<1	82	82	<3	<3	<5	<5	<5
29...	1	48	46	<1	<2	150	160	<3	15	6	<5	<5
APR 06...	--	36	30	<1	<.5	100	100	<3	<3	<5	<5	<5
MAY 09...	--	37	35	<1	<.5	200	200	<3	<3	16	15	<5
JUN 05...	3	56	45	<1	<.5	170	170	<3	<3	<5	<5	<5
AUG 06...	--	60	56	<1	<1	340	330	<3	<3	<5	<5	<5
30...	4	63	58	<1	<.5	310	320	<3	<3	8	<5	6

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05539000 HICKORY CREEK AT JOLIET, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
OCT 26...	<5	<5	<5	1000	<50	<50	<50	70	42	<.1	16	15
NOV 21...	<5	<5	<5	1000	<50	<50	<50	70	35	--	<5	<5
JAN 17...	<5	<5	<5	110	<50	<50	<50	60	57	<.1	6	9
FEB 21...	<5	7	<5	1100	<50	<50	<50	37	19	--	<5	<5
29...	<5	<5	12	320	79	<50	<50	49	50	<.1	10	5
APR 06...	<5	<5	<5	960	<50	<50	<50	41	27	--	<5	<5
MAY 09...	<5	<5	<5	280	<50	<50	<50	46	34	--	<5	<5
JUN 05...	<5	39	<5	1300	<50	<50	<50	170	110	<.1	7	<5
AUG 06...	<5	<5	<5	300	<50	<50	<50	130	65	--	<5	<5
30...	<5	<5	<5	630	52	<50	<50	110	45	<.1	13	6

DATE	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, TOTAL (UG/L AS V) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) (00556)
OCT 26...	<3	<3	230	240	<5	<5	<50	<50	.00	<1	1
NOV 21...	<3	<3	480	480	<5	<5	<100	<100	.01	--	0
JAN 17...	<3	<3	430	430	<5	<5	<100	<100	.01	<1	0
FEB 21...	<3	<3	150	150	<5	<5	<50	<50	.00	--	2
29...	<3	<3	260	250	<5	<5	--	--	.01	<1	0
APR 06...	<3	<3	170	170	<5	<5	<100	<100	.00	--	1
MAY 09...	<3	<3	250	250	<5	<5	--	--	.00	--	1
JUN 05...	<3	<3	260	260	<5	<5	<100	<50	.00	<1	--
AUG 06...	<3	<3	400	390	<5	<5	<50	<50	.00	--	1
30...	<3	<3	420	430	<5	<5	<50	<50	.00	3	1

05539900 WEST BRANCH DU PAGE RIVER NEAR WEST CHICAGO, IL

LOCATION.--Lat 41°54'39", long 88°10'44", in SE1/4NW1/4 sec.35, T.40 N., R.9 E., Du Page County, Hydrologic Unit 07120004, on left bank at downstream side of bridge on State Highway 64, 2 mi northeast of West Chicago, and at mile 49.2.

DRAINAGE AREA.--28.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1961 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-77-1: 1966-67(M).

GAGE.--Water-stage recorder. Datum of gage is 717.76 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--23 years, 32.5 ft³/s, 15.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 984 ft³/s Dec. 3, 1982, gage height, 10.44 ft; minimum, 0.2 ft³/s July 1, 5, 8-12, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 392 ft³/s Feb. 13, gage height, 9.07 ft, no peak above base of 400 ft³/s; minimum daily, 10 ft³/s Sept. 20-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	26	73	22	15	24	32	79	47	16	13	13
2	14	41	65	21	16	24	32	56	35	16	13	13
3	14	34	56	22	17	25	33	45	30	16	13	12
4	15	25	52	19	17	24	68	48	26	16	14	13
5	14	20	48	20	17	23	59	36	25	15	15	13
6	13	20	59	19	16	22	44	31	25	16	14	12
7	13	19	52	19	16	21	35	28	26	15	14	13
8	14	18	45	18	16	22	33	25	27	14	14	13
9	14	17	44	18	16	21	31	25	24	16	21	15
10	13	18	42	17	17	20	28	25	22	15	148	13
11	14	26	94	17	39	20	25	29	21	64	31	14
12	23	19	235	17	167	20	55	24	20	20	18	13
13	16	18	130	17	348	20	144	26	21	15	16	14
14	14	18	119	17	180	19	82	24	21	15	15	16
15	14	18	135	17	106	40	73	22	18	14	15	12
16	14	19	89	17	83	120	85	22	18	14	14	12
17	14	18	72	16	69	80	86	20	18	14	14	12
18	14	18	61	16	73	60	61	20	23	14	14	11
19	14	34	60	16	113	45	51	22	19	14	13	11
20	14	80	43	16	79	105	45	25	16	14	13	10
21	16	63	35	17	64	142	39	22	16	34	13	10
22	91	38	31	17	50	115	75	61	30	17	13	10
23	163	146	30	17	43	91	145	101	34	15	13	16
24	61	173	27	18	41	100	92	43	77	15	13	14
25	35	77	31	17	37	85	67	126	27	15	13	35
26	27	60	26	16	33	70	51	164	21	15	12	31
27	21	86	27	16	31	61	43	75	25	16	13	14
28	18	271	27	17	29	52	37	117	20	14	13	13
29	16	179	23	16	25	46	33	139	18	14	13	12
30	16	96	21	16	---	41	90	79	16	14	13	11
31	17	---	21	16	---	36	---	58	---	14	12	---
TOTAL	771	1695	1873	544	1773	1594	1774	1617	766	536	583	421
MEAN	24.9	56.5	60.4	17.5	61.1	51.4	59.1	52.2	25.5	17.3	18.8	14.0
MAX	163	271	235	22	348	142	145	164	77	64	148	35
MIN	13	17	21	16	15	19	25	20	16	14	12	10
CFSM	.87	1.98	2.12	.61	2.14	1.80	2.07	1.83	.89	.61	.66	.49
IN.	1.01	2.21	2.44	.71	2.31	2.08	2.32	2.11	.00	.70	.76	.55

CAL YR 1983	TOTAL	17821	MEAN	48.8	MAX	513	MIN	10	CFSM	1.71	IN.	23.26
WTR YR 1984	TOTAL	13947	MEAN	38.1	MAX	348	MIN	10	CFSM	1.34	IN.	18.20

05539900 WEST BRANCH DU PAGE RIVER NEAR WEST CHICAGO, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1964-77 are published in Water-Resources Investigations 78-22 and 79-23 as site GBK 09.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD- NESS (MG/L AS CACO3) (00900)
NOV												
02...	0800	17002	17002	30	983	7.3	14.5	15	9.3	30	1000	320
DEC												
02...	1230	17002	17002	64	933	7.3	4.0	18	10.7	19	280	390
JAN												
11...	1300	17002	17002	18	1570	7.6	.0	6.0	11.3	16	150	480
MAR												
02...	0900	17002	17002	24	1450	7.4	2.5	5.0	15.8	13	120	460
APR												
16...	1300	17002	17002	80	1010	7.4	7.0	7.0	10.4	23	3800	370
MAY												
21...	1130	17002	17002	21	1300	7.4	17.0	16	--	22	2000	380
JUL												
02...	1130	17002	17002	16	1330	7.6	20.0	23	6.7	28	1100	400
26...	0930	17002	17002	14	1420	7.7	19.5	32	5.6	19	1400	400
SEP												
10...	0900	17002	17002	13	1160	7.3	19.5	14	5.2	24	53000	300

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV												
02...	80	77	34	31	93	100	9.2	9.0	100	120	.6	622
DEC												
02...	91	90	40	40	61	58	5.9	5.7	130	79	--	--
JAN												
11...	110	110	50	50	190	190	11	11	170	240	.2	1000
MAR												
02...	110	110	48	43	160	150	8.3	8.3	140	220	--	--
APR												
16...	85	85	38	38	89	91	5.0	4.9	100	130	--	--
MAY												
21...	88	87	40	40	120	120	8.8	8.8	130	150	--	--
JUL												
02...	96	92	43	41	140	140	12	11	120	170	--	--
26...	97	92	44	42	150	140	13	12	130	190	--	--
SEP												
10...	72	70	32	30	130	130	13	12	89	160	--	--

05539900 WEST BRANCH DU PAGE RIVER NEAR WEST CHICAGO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
NOV 02...	39	11	5.8	.570	.003	2.1	2.7	8.5	1.50	1.50	700	110
DEC 02...	40	10	5.9	.160	<.001	--	--	--	.820	.710	870	<50
JAN 11...	13	4	9.6	.780	.003	.92	1.7	11	2.10	1.90	270	57
MAR 02...	18	4	7.1	.420	.001	--	--	--	1.40	1.40	280	<50
APR 16...	28	9	4.4	.190	<.001	--	--	--	.470	.570	440	<50
MAY 21...	32	9	6.5	.490	.004	--	--	--	1.70	1.60	350	<50
JUL 02...	70	14	9.5	.760	.012	--	--	--	2.50	2.20	1800	<50
26...	59	21	11	.220	.004	--	--	--	2.80	2.50	1500	<50
SEP 10...	27	8	5.4	1.30	.010	--	--	--	2.80	2.69	480	<50

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
NOV 02...	1	200	130	<1	<.5	360	370	5	<3	11	<5	<5
DEC 02...	--	100	100	<2	<1	200	200	<3	<3	<5	<5	<5
JAN 11...	1	200	170	<2	<2	540	540	<3	<3	<5	<5	<5
MAR 02...	--	100	130	<1	<1	320	320	<3	<3	<5	<5	<5
APR 16...	--	79	71	<1	<.5	190	190	<3	<3	<5	<5	<5
MAY 21...	--	100	110	<1	<.5	420	420	<3	<3	<5	<5	<5
JUL 02...	--	300	200	<1	<2	590	580	<3	<3	<5	<5	<5
26...	--	300	230	<1	<1	670	660	<3	<3	6	8	<5
SEP 10...	--	200	200	<1	<.5	630	610	<3	<3	<5	<5	<5

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05539900 WEST BRANCH DU PAGE RIVER NEAR WEST CHICAGO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
NOV 02...	<5	10	7	1600	88	<50	<50	100	71	<.1	22	8
DEC 02...	<5	8	<5	1500	<50	<50	<50	64	34	--	8	8
JAN 11...	<5	12	7	440	<50	<50	<50	120	110	<.1	14	9
MAR 02...	<5	9	8	780	<50	<50	<50	100	94	--	<5	<5
APR 16...	<5	5	<5	900	<50	<50	<50	61	45	--	<5	<5
MAY 21...	<5	8	<5	970	<50	<50	<50	150	120	--	<5	<5
JUL 02...	<5	12	<5	2400	<50	<50	<50	140	96	--	35	23
26...	6	10	6	2100	<50	<50	<50	120	75	--	18	17
SEP 10...	<5	6	<5	860	<50	<50	<50	71	52	--	17	7

DATE	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, TOTAL (UG/L AS V) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) (00556)
NOV 02...	5	<3	1100	1100	8	<5	<100	<100	.01	5	1
DEC 02...	<3	<3	630	620	<5	<5	<50	<50	.01	--	1
JAN 11...	<3	<3	1100	1100	<5	<5	<100	<50	.01	<1	1
MAR 02...	<3	<3	840	840	<5	<5	<100	<100	.00	--	1
APR 16...	<3	<3	450	450	<5	<5	<50	<50	.00	--	1
MAY 21...	<3	<3	940	930	<5	<5	<50	<50	.00	--	0
JUL 02...	<3	--	1400	1400	<5	<5	<100	<50	.01	--	0
26...	<3	<3	1800	1700	<5	<5	<100	<50	.00	--	1
SEP 10...	<3	<3	1600	1500	<5	<5	<100	<100	.00	--	2

05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL

LOCATION.--Lat 41°49'22", long 88°10'23", in SW¼NE¼ sec.35, T.39 N., R.9 E., Du Page County, Hydrologic Unit 07120004, on right bank 400 ft upstream from Warrenville Forest Preserve Dam in Warrenville, 0.6 mi downstream from Spring Brook, and at mile 38.9.

DRAINAGE AREA.--90.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 688.59 ft National Geodetic Vertical Datum of 1929 (Illinois Department of Transportation bench mark).

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--16 years, 101 ft^3/s, 15.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft^3/s Dec. 3, 1982, gage height, 4.88 ft; minimum daily, 7.8 ft^3/s Sept. 14, 1971, Oct. 26, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 11, 1954, reached a stage of 5.54 ft, from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft^3/s Feb. 13, gage height, 3.83 ft; minimum daily, 22 ft^3/s Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	42	218	50	35	97	97	254	165	47	23	28
2	31	81	177	49	37	101	89	152	129	42	23	29
3	31	69	150	50	40	95	97	122	108	47	25	24
4	32	54	133	47	38	93	155	122	98	49	35	22
5	32	48	126	44	36	90	174	103	92	44	52	25
6	27	46	141	43	38	88	135	92	85	44	37	25
7	24	41	137	42	34	84	109	87	86	40	31	26
8	30	41	115	41	36	81	96	69	81	37	31	25
9	41	42	105	39	33	76	90	66	81	35	44	35
10	31	45	99	38	43	72	86	63	81	40	217	28
11	25	57	197	37	88	69	81	64	67	138	180	35
12	46	44	520	38	341	65	111	62	60	105	73	33
13	67	37	484	37	1080	66	291	67	66	63	51	48
14	38	40	331	38	876	68	224	63	84	49	45	56
15	32	40	367	39	461	104	172	57	63	44	40	35
16	31	37	272	38	321	371	177	69	56	37	36	26
17	31	37	198	37	258	293	191	54	55	37	33	25
18	29	37	149	36	247	175	159	48	55	37	34	25
19	27	69	107	36	352	154	130	44	57	33	31	24
20	27	150	124	36	295	354	115	73	49	31	27	24
21	44	173	106	39	234	453	103	60	55	96	24	26
22	153	105	93	38	197	394	277	155	112	60	25	25
23	254	306	77	38	169	310	462	295	188	42	26	73
24	197	410	67	40	154	318	304	169	131	37	26	45
25	105	263	72	39	134	292	206	293	107	35	24	86
26	74	166	66	37	121	229	161	471	81	35	23	133
27	57	189	63	36	113	194	134	307	81	40	23	62
28	47	576	60	39	115	169	118	313	75	35	25	38
29	40	608	56	37	104	138	105	449	60	31	25	29
30	35	341	52	36	---	117	261	315	52	28	25	27
31	37	---	52	36	---	108	---	215	---	28	25	---
TOTAL	1708	4194	4914	1230	6030	5318	4910	4773	2560	1466	1339	1142
MEAN	55.1	140	159	39.7	208	172	164	154	85.3	47.3	43.2	38.1
MAX	254	608	520	50	1080	453	462	471	188	138	217	133
MIN	24	37	52	36	33	65	81	44	49	28	23	22
CFSM	.61	1.55	1.76	.44	2.30	1.90	1.81	1.70	.94	.52	.48	.42
IN.	.70	1.73	2.02	.51	2.48	2.19	2.02	1.96	1.05	.60	.55	.47

CAL YR 1983 TOTAL 47668 MEAN 131 MAX 1580 MIN 24 CFSM 1.45 IN. 19.62
WTR YR 1984 TOTAL 39584 MEAN 108 MAX 1080 MIN 22 CFSM 1.19 IN. 16.29

05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year. Additional chemical data for water years 1964-77 are published in Water-Resources Investigations 78-22 and 79-23 as site GBK 05.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
NOV												
08...	1150	81700	17002	40	1560	8.8	11.5	--	8.7	24	380	430
23...	1000	17002	17002	326	796	7.2	11.0	78	7.7	68	6000	260
DEC												
21...	1215	81700	17002	105	1190	7.6	.5	--	13.3	19	1500	440
FEB												
07...	1100	17002	17002	23	--	6.8	.0	23	9.5	37	35	500
07...	1130	81700	17002	23	2050	8.0	.5	--	12.4	23	310	490
MAR												
20...	1200	81700	17002	326	1080	7.5	2.5	--	12.2	28	8400	290
MAY												
02...	1130	81700	17002	154	952	8.8	10.5	--	9.8	82	800	400
JUN												
13...	1100	81700	17002	55	1430	7.9	23.5	--	5.6	160	400	450
AUG												
01...	1140	81700	17002	21	1740	8.1	24.0	--	6.6	26	500	480
28...	1130	81700	17002	26	1840	7.8	23.5	--	6.3	22	270	480

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV												
08...	98	97	46	46	190	180	11	11	130	240	--	--
23...	66	59	31	27	72	73	5.6	5.2	80	--	.4	520
DEC												
21...	95	99	44	46	110	120	6.5	6.8	110	160	--	--
FEB												
07...	120	110	56	54	300	300	12	12	160	--	1.1	1320
07...	110	110	53	53	270	270	12	12	150	380	--	--
MAR												
20...	66	66	31	31	130	130	4.3	4.2	68	190	--	--
MAY												
02...	90	89	44	44	75	77	4.3	4.2	83	100	--	--
JUN												
13...	110	100	50	48	150	140	9.4	9.2	120	200	--	--
AUG												
01...	110	110	52	51	200	200	14	14	150	270	--	--
28...	100	110	50	51	220	230	14	14	140	300	--	--

05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
NOV												
08...	44	5	8.1	.620	.073	--	--	--	1.90	1.80	490	<50
23...	230	35	3.0	.320	.001	2.3	2.6	5.6	1.40	.580	2300	<50
DEC												
21...	12	2	5.3	1.30	.005	--	--	--	.700	.720	280	100
FEB												
07...	78	14	9.0	1.70	<.001	1.7	3.4	12	2.50	1.80	1500	<50
07...	19	2	8.3	1.90	.017	--	--	--	2.10	2.10	510	59
MAR												
20...	130	79	3.2	.550	.002	--	--	--	.540	.430	80	79
MAY												
02...	28	13	3.5	.440	.050	--	--	--	.470	.380	530	<50
JUN												
13...	46	13	6.1	.590	.024	--	--	--	1.60	1.20	1300	390
AUG												
01...	44	12	7.6	.180	.012	--	--	--	2.00	1.70	1300	100
28...	38	12	8.7	.510	.017	--	--	--	2.30	2.14	1100	310

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
NOV												
08...	--	100	110	<1	<.5	490	490	<3	<3	<5	<5	<5
23...	2	100	57	<1	<.5	190	190	<3	<3	15	6	<5
DEC												
21...	--	93	89	<2	<2	290	300	<3	<3	17	<5	<5
FEB												
07...	2	200	130	<1	<1	510	500	<3	<3	6	<5	<5
07...	--	100	130	<1	<1	500	510	<3	<3	<5	<5	<5
MAR												
20...	--	52	51	<2	<1	140	140	3	<3	<5	<5	<5
MAY												
02...	--	69	62	<1	<.5	170	170	<3	<3	<5	<5	<5
JUN												
13...	--	100	130	<2	<1	460	450	<3	<3	6	<5	<5
AUG												
01...	--	200	160	<1	<.5	710	710	5	3	9	5	<5
28...	--	200	180	<1	<.5	680	710	<3	<3	<5	<5	<5

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
NOV												
08...	<5	11	11	1000	<50	<50	<50	67	50	--	6	6
23...	<5	41	<5	5100	<50	<50	<50	190	46	<.1	10	7
DEC												
21...	<5	16	13	600	<50	<50	<50	50	46	--	19	<5
FEB												
07...	<5	39	6	2000	<50	<50	<50	180	110	<.1	15	7
07...	<5	13	7	740	<50	<50	<50	110	110	--	10	12
MAR												
20...	<5	7	7	<50	<50	<50	<50	48	47	--	5	<5
MAY												
02...	<5	11	7	870	84	<50	<50	73	53	--	<5	<5
JUN												
13...	<5	10	5	1500	400	<50	<50	130	110	--	<5	5
AUG												
01...	<5	12	10	1300	<50	<50	<50	110	69	--	14	13
28...	<5	12	8	1300	98	<50	<50	82	54	--	<5	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV											
08...	<3	<3	1200	1200	<5	<5	150	120	.01	--	1
23...	<3	<3	410	390	<5	<5	140	<50	.00	<1	1
DEC											
21...	<3	<3	530	550	<5	<5	<50	<50	.01	--	1
FEB											
07...	<3	<3	1100	1100	<5	<5	140	<100	.01	<1	0
07...	<3	<3	1100	1100	<5	<5	<100	<50	.01	--	1
MAR											
20...	<3	<3	300	290	<5	<5	<50	<50	.00	--	2
MAY											
02...	<3	<3	320	320	<5	<5	--	--	.00	--	2
JUN											
13...	<3	<3	960	930	<5	<5	<100	<50	.00	--	2
AUG											
01...	<3	<3	1500	1500	<5	<5	<100	<100	.00	--	1
28...	<3	<3	1700	1700	<5	<5	<50	<50	.00	--	0

05540210 EAST BRANCH DU PAGE RIVER AT ROUTE 34 BRIDGE AT LISLE, IL

LOCATION.--Lat 41°48'02", long 88°04'53", in SE¼ sec.3, T.38 N., R.10 E., Du Page County, Hydrologic Unit 07120004, at bridge on U.S. Highway 34 in Lisle, 0.1 mi downstream from a small left-bank tributary, 0.3 mi upstream from Burlington Northern Railroad bridge, and at mile 11.6.

DRAINAGE AREA.--57.0 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

REMARKS.--Mean daily discharges are estimated from daily discharge record for West Branch Du Page River near West Chicago (05539900).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
27...	1030	17002	17002	18	970	7.1	11.0	18	8.2	28	540	260
DEC												
02...	1430	17002	17002	58	1080	7.3	5.0	--	10.7	17	240	350
JAN												
26...	1030	17002	17002	E29	--	7.2	5.0	10	--	25	360	460
MAR												
02...	0730	17002	17002	52	1720	7.1	3.0	4.0	16.7	17	45	460
APR												
16...	1130	17002	17002	E145	1260	7.3	9.0	8.0	10.1	25	380	390
MAY												
21...	1330	17002	17002	E48	1680	7.0	--	5.0	--	24	390	410
JUL												
02...	1030	17002	17002	16	1810	7.6	20.0	4.0	10.4	28	550	450
26...	1130	17002	17002	15	1920	7.5	19.0	16	--	16	440	440
SEP												
10...	1030	17002	17002	13	1810	7.4	20.5	3.0	8.6	18	600	410

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT												
27...	64	60	28	27	110	110	8.3	8.1	93	130	--	496
DEC												
02...	82	81	37	36	99	100	6.3	6.3	120	130	--	--
JAN												
26...	110	110	47	46	510	510	15	15	150	620	.8	1650
MAR												
02...	110	110	48	47	220	210	10	9.9	160	300	--	--
APR												
16...	88	89	40	40	150	150	6.2	6.3	120	190	--	--
MAY												
21...	96	93	43	42	150	150	8.3	8.0	160	190	--	--
JUL												
02...	100	100	46	46	210	210	13	13	160	300	--	--
26...	100	99	48	46	230	220	15	14	170	270	--	--
SEP												
10...	96	94	44	43	260	260	14	14	140	310	--	--

E Estimated.

05540210 EAST BRANCH DU PAGE RIVER AT ROUTE 34 BRIDGE AT LISLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT												
27...	42	15	4.6	.710	.002	2.3	3.0	7.6	.940	.870	850	69
DEC												
02...	20	6	4.9	.180	<.001	--	--	--	.650	.590	630	59
JAN												
26...	14	9	8.5	1.90	.004	1.3	3.2	12	2.30	2.30	380	<50
MAR												
02...	15	2	7.2	1.40	.002	--	--	--	1.40	1.30	120	<50
APR												
16...	18	5	3.4	.370	.001	--	--	--	.500	.530	340	<50
MAY												
21...	25	10	4.3	.400	--	--	--	--	.900	.820	280	<50
JUL												
02...	19	10	11	.060	<.001	--	--	--	1.90	1.80	310	<50
26...	7	6	15	.170	.002	--	--	--	3.00	3.20	190	<50
SEP												
10...	12	5	11	.140	.002	--	--	--	2.50	2.56	140	<50

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT												
27...	1	45	35	<1	<1	360	360	<3	<3	<5	<5	<5
DEC												
02...	--	51	45	<2	<2	250	250	<3	<3	<5	<5	<5
JAN												
26...	3	88	66	<2	<2	570	570	<3	<3	6	<5	<5
MAR												
02...	--	72	66	<2	<1	410	420	<3	<3	<5	<5	<5
APR												
16...	--	34	29	<1	<.5	250	260	<3	<3	<5	<5	<5
MAY												
21...	--	49	44	<1	<.5	410	420	<3	<3	<5	<5	<5
JUL												
02...	--	50	46	<1	<2	690	690	<3	<3	<5	<5	<5
26...	--	49	46	<1	<1	790	760	<3	<3	<5	<5	<5
SEP												
10...	--	47	49	<1	<.5	730	720	<3	<3	<5	<5	<5

05540210 EAST BRANCH DU PAGE RIVER AT ROUTE 34 BRIDGE AT LISLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT 27...	<5	7	<5	1400	<50	<50	<50	58	38	<.1	12	9
DEC 02...	<5	<5	<5	810	<50	<50	<50	28	15	--	<5	<5
JAN 26...	<5	7	5	580	<50	<50	<50	83	76	<.1	16	15
MAR 02...	<5	<5	<5	490	<50	<50	<50	78	72	--	<5	<5
APR 16...	<5	<5	<5	800	<50	<50	<50	61	48	--	<5	<5
MAY 21...	<5	7	<5	680	<50	<50	<50	82	64	--	12	9
JUL 02...	<5	<5	<5	510	<50	<50	<50	62	62	--	<5	<5
26...	<5	6	5	350	140	<50	<50	43	37	--	12	<5
SEP 10...	<5	<5	<5	300	<50	<50	<50	38	30	--	6	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 27...	<3	<3	620	600	<5	<5	<100	<50	.01	<1	2
DEC 02...	<3	<3	490	490	<5	<5	--	--	.00	--	1
JAN 26...	<3	<3	1100	1100	<5	<5	220	180	.02	10	0
MAR 02...	<3	<3	900	890	<5	<5	130	120	.01	--	1
APR 16...	<3	<3	470	480	<5	<5	<100	<50	.00	--	1
MAY 21...	<3	<3	740	720	<5	<5	<100	<50	.00	--	1
JUL 02...	<3	<3	1300	1300	<5	<5	110	<100	.00	--	1
26...	<3	<3	1600	1500	<5	<5	150	130	.00	--	1
SEP 10...	<3	<3	1300	1300	<5	<5	290	220	.00	--	2

05540290 DU PAGE RIVER NEAR NAPERVILLE, IL

LOCATION.--Lat 41°41'24", long 88°09'58", in NE¼ sec.14, T.37 N., R.9 E., Will County, Hydrologic Unit 07120004, at bridge on Plainfield-Naperville Road, 1.0 mi downstream from Spring Brook, 1.5 mi downstream from the confluence of the East and West Branches, 4.0 mi south of Naperville, and at mile 26.1.

DRAINAGE AREA.--220 mi².

PERIOD OF RECORD.--Water years 1976 to current year. Additional chemical data for water years 1968-77 are published in Water-Resources Investigations 78-22 and 79-23 as site GB 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD- NESS (MG/L AS CACO3) (00900)
OCT												
27...	0830	17002	17002	140	1230	5.9	9.0	5.0	9.0	21	1400	380
DEC												
05...	0800	17002	17002	249	1130	7.0	5.0	16	10.0	19	430	380
22...	0900	17002	17002	E195	1430	7.9	.0	5.0	12.9	18	230	420
JAN												
24...	1230	17002	17002	E90	1750	7.2	3.0	3.0	10.5	16	<10	460
MAR												
14...	0930	17002	17002	118	1100	7.4	4.5	4.0	14.5	21	18	480
APR												
05...	1300	17002	17002	469	1180	7.5	9.0	5.0	13.4	22	73	360
MAY												
21...	1100	17002	17002	202	--	--	17.0	1.0	11.6	9	27	340
JUN												
12...	0945	17002	17002	161	1350	7.4	22.0	26	7.3	31	3000	430
AUG												
06...	0830	17002	17002	E90	1750	7.6	24.5	20	7.4	21	1800	400
SEP												
13...	0830	17002	17002	85	737	7.3	22.0	4.0	7.5	28	510	430

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
OCT												
27...	87	86	40	39	140	140	8.3	8.2	110	.5	680	28
DEC												
05...	92	87	42	40	110	110	6.8	6.6	--	--	--	33
22...	98	94	45	44	140	130	7.0	6.8	120	.6	828	19
JAN												
24...	100	100	49	49	240	230	11	11	--	--	--	8
MAR												
14...	110	110	52	51	210	210	9.9	9.6	--	--	--	14
APR												
05...	84	82	39	38	130	130	6.1	5.9	--	--	--	38
MAY												
21...	73	73	38	39	14	15	1.3	1.3	--	--	--	4
JUN												
12...	99	95	48	46	130	130	8.4	8.1	--	--	--	75
AUG												
06...	93	89	45	43	180	180	11	11	--	--	--	44
SEP												
13...	95	95	46	46	250	250	15	15	--	--	--	18

E Estimated.

05540290 DU PAGE RIVER NEAR NAPERVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)
OCT												
27...	12	5.4	.450	<.001	1.8	2.2	7.6	1.10	1.10	500	61	2
DEC												
05...	9	4.6	.950	.001	--	--	--	.900	.910	680	71	--
22...	1	5.3	1.20	.008	1.0	2.2	7.5	.830	.820	570	<50	<1
JAN												
24...	1	6.8	3.40	.006	--	--	--	2.20	2.20	180	50	--
MAR												
14...	7	6.0	1.80	.006	--	--	--	1.40	1.20	190	87	--
APR												
05...	8	3.9	.760	.004	--	--	--	.580	.570	500	<50	--
MAY												
21...	4	12	.170	--	--	--	--	.070	.060	74	<50	--
JUN												
12...	22	5.2	.700	.008	--	--	--	1.20	.840	1800	<50	--
AUG												
06...	23	7.2	.190	.004	--	--	--	1.90	1.80	870	<50	--
SEP												
13...	8	5.7	1.80	.017	--	--	--	1.90	1.64	170	<50	--

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)
OCT												
27...	64	55	<1	<1	310	310	<3	<3	<5	<5	<5	<5
DEC												
05...	74	63	<2	<2	260	260	<3	<3	<5	<5	<5	<5
22...	95	65	2	<2	280	270	<3	<3	6	<5	<5	<5
JAN												
24...	76	71	<2	<2	470	470	<3	<3	<5	<5	<5	<5
MAR												
14...	59	53	<1	<.5	400	390	3	3	18	17	6	6
APR												
05...	47	39	<1	<.5	180	180	<3	<3	<5	<5	<5	<5
MAY												
21...	44	43	<1	<.5	50	<50	<3	<3	<5	<5	<5	<5
JUN												
12...	91	69	<1	<1	370	370	<3	<3	8	<5	<5	<5
AUG												
06...	83	70	<1	<1	530	530	<3	<3	6	<5	<5	<5
SEP												
13...	69	68	<1	<1	610	610	<3	<3	<5	<5	<5	<5

05540250 DU PAGE RIVER NEAR NAPERVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT 27...	5	<5	760	<50	<50	<50	47	30	<.1	7	7
DEC 05...	8	<5	950	<50	<50	<50	38	9	--	<5	<5
22...	7	<5	720	<50	<50	<50	51	35	<.1	11	7
JAN 24...	7	5	140	<50	<50	<50	55	50	--	7	9
MAR 14...	9	6	550	<50	140	140	54	43	--	12	12
APR 05...	7	<5	930	<50	<50	<50	62	39	--	<5	<5
MAY 21...	6	<5	170	<50	<50	<50	100	100	--	5	<5
JUN 12...	11	<5	2200	<50	<50	<50	110	34	--	<5	<5
AUG 06...	9	5	1200	<50	<50	<50	89	37	--	10	<5
SEP 13...	31	28	280	<50	<50	<50	54	41	--	<5	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 27...	<3	<3	530	520	<5	<5	<50	<100	.01	<1	--
DEC 05...	<3	<3	440	430	<5	<5	<100	<100	.01	--	--
22...	<3	<3	480	450	<5	<5	<100	<100	.01	2	1
JAN 24...	<3	<3	860	850	<5	<5	100	<100	.02	--	--
MAR 14...	<3	3	680	660	6	6	<100	<50	.02	--	--
APR 05...	<3	<3	360	360	<5	<5	<50	<50	.01	--	--
MAY 21...	<3	<3	82	85	<5	<5	100	100	.00	--	--
JUN 12...	<3	<3	610	590	<5	<5	110	100	.00	--	--
AUG 06...	<3	<3	910	890	<5	<5	<100	<50	.00	--	--
SEP 13...	<5	<3	1100	1000	<5	<5	<100	<100	.02	--	1

05540500 DU PAGE RIVER AT SHOREWOOD, IL

LOCATION.--Lat 41°31'20", long 88°11'35", in SE¼SW¼ sec.10, T.35 N., R.9 E., Will County, Hydrologic Unit 07120004, on left bank 400 ft upstream from bridge on U.S. Highway 52 at Shorewood, 3.8 mi downstream from Lily Cache Creek and at mile 10.6.

DRAINAGE AREA.--324 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year. Published as "at Troy" 1940-65.

REVISED RECORDS.--WSP 1035: 1944. WSP 1055: 1942(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 564.62 ft National Geodetic Vertical Datum of 1929 (Illinois Department of Transportation bench mark). Prior to Apr. 11, 1941, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--44 years, 262 ft³/s, 10.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s Oct. 11, 1954, gage height, 11.06 ft; minimum, 0.2 ft³/s Nov. 17, 1955, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 23	2315	1300	3.72	Mar. 16	0630	1660	4.09
Nov. 28	1445	1660	4.09	Mar. 20	2400	1740	4.18
Dec. 12	1045	1610	4.03	Apr. 23	0600	1460	3.87
Feb. 13	0930	*3620	*6.13	May 29	0715	1430	3.84

Minimum recorded discharge, 73 ft³/s Feb. 6, Sept. 20-22, but may have been less during day of ice effect Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	111	693	180	127	295	373	870	586	169	97	94
2	101	136	522	180	122	282	345	646	468	156	92	119
3	94	225	419	185	124	275	356	521	385	154	95	86
4	101	163	358	175	130	263	558	487	341	156	98	80
5	100	135	334	165	122	251	658	437	318	153	100	87
6	99	127	397	160	113	241	557	375	300	155	122	88
7	94	120	414	152	130	224	445	358	275	150	108	83
8	88	117	342	145	127	213	387	334	266	129	101	82
9	95	109	306	138	130	203	358	316	272	127	96	116
10	93	111	276	132	128	193	339	295	342	130	346	104
11	96	113	484	130	250	192	318	280	268	189	402	93
12	114	126	1570	133	980	185	333	272	233	312	248	104
13	169	109	1530	130	3210	189	669	269	221	200	161	93
14	144	102	1220	135	2680	186	709	292	283	154	129	147
15	107	109	1270	140	1970	287	555	267	240	134	119	126
16	96	114	1010	135	1190	1540	520	248	207	122	109	97
17	91	112	686	130	905	1280	555	240	203	121	104	85
18	96	105	514	130	803	779	535	228	188	115	102	85
19	92	108	307	130	1140	615	452	218	198	107	97	85
20	96	213	340	130	1000	1320	411	254	187	107	90	78
21	122	356	320	135	791	1690	351	286	169	111	88	76
22	242	267	280	135	665	1550	727	334	296	156	87	75
23	693	706	255	137	585	1260	1440	913	922	125	84	99
24	580	1170	240	142	510	1080	1210	702	520	119	83	191
25	346	877	245	140	448	965	823	606	407	151	84	252
26	232	490	235	130	387	800	652	1070	292	117	82	660
27	184	435	220	130	354	701	596	905	253	141	79	309
28	168	1540	215	140	306	652	796	852	239	121	88	183
29	143	1630	210	130	301	566	570	1390	214	106	88	136
30	126	1210	190	130	---	475	867	1160	184	101	85	113
31	116	---	180	129	---	417	---	766	---	101	81	---
TOTAL	5025	11246	15582	4413	19728	19169	17465	16191	9277	4389	3745	4026
MEAN	162	375	503	142	680	618	582	522	309	142	121	134
MAX	693	1630	1570	185	3210	1690	1440	1390	922	312	402	660
MIN	88	102	180	129	113	185	318	218	169	101	79	75
CFSM	.50	1.16	1.55	.44	2.10	1.91	1.80	1.61	.95	.44	.37	.41
IN.	.58	1.29	1.79	.51	2.27	2.20	2.01	1.86	1.07	.50	.43	.46

CAL YR 1983 TOTAL 173323 MEAN 475 MAX 6300 MIN 88 CFSM 1.47 IN. 19.90
WTR YR 1984 TOTAL 130256 MEAN 356 MAX 3210 MIN 75 CFSM 1.10 IN. 14.96

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05540500 DU PAGE RIVER AT SHOREWOOD, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-76, 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 03...	1000	17002	17002	91	1620	8.1	19.0	17	10.3	26	220	440
NOV 18...	1330	17002	17002	104	1480	--	9.0	1.0	--	14	16	440
JAN 23...	1000	17002	17002	E137	1610	7.8	[illegible].0	3.0	9.2	13	45	480
FEB 15...	0830	17002	17002	2080	761	7.1	4.0	26	10.3	24	2100	220
APR 06...	1130	17002	17002	551	1060	7.7	8.0	7.0	10.5	15	45	360
MAY 21...	0730	17002	17003	302	--	--	16.0	6.0	6.5	24	410	410
JUN 13...	1300	17002	17002	214	1290	7.8	26.0	46	9.2	33	91	440
AUG 06...	1030	17002	17002	122	1680	8.3	26.5	26	12.5	42	600	450
SEP 13...	1030	17002	17002	91	676	7.7	21.5	6.0	7.7	28	28	450

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT 03...	97	96	47	48	210	190	11	11	140	260	--	--
NOV 18...	99	100	47	47	180	180	11	11	140	220	.7	986
JAN 23...	110	110	51	51	200	190	10	10	150	260	.8	1080
FEB 15...	55	51	24	23	74	73	4.3	3.9	47	120	--	--
APR 06...	83	81	39	38	93	94	4.8	4.6	87	140	--	--
MAY 21...	91	90	45	44	140	140	7.5	7.4	120	190	--	--
JUN 13...	100	97	48	47	120	120	7.2	6.7	120	170	--	--
AUG 06...	100	98	51	50	190	180	12	11	160	270	--	--
SEP 13...	100	99	51	49	220	220	13	12	140	260	--	--

E Estimated.

05540500 DU PAGE RIVER AT SHOREWOOD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 03...	25	4	6.7	.010	<.001	--	--	--	1.40	1.40	440	59
NOV 18...	7	6	6.9	.020	.020	.86	.88	7.8	1.50	1.40	69	<50
JAN 23...	3	3	8.7	1.80	.010	.80	2.6	11	1.60	1.70	110	<50
FEB 15...	54	9	4.0	.430	<.001	--	--	--	.340	.260	1600	120
APR 06...	46	11	5.2	.360	.003	--	--	--	.400	.410	500	<50
MAY 21...	22	9	4.9	.090	--	--	--	--	.830	.810	270	<50
JUN 13...	94	23	6.2	.020	<.001	--	--	--	.700	.610	2100	<50
AUG 06...	60	30	5.2	.040	.005	--	--	--	1.10	1.20	630	<50
SEP 13...	30	8	5.8	.060	.001	--	--	--	1.60	1.54	400	<50

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 03...	--	63	57	<1	<.5	480	470	<3	<3	<5	<5	<5
NOV 18...	--	64	63	<1	<.5	430	440	<3	<3	<5	<5	<5
JAN 23...	1	73	70	<2	<1	410	420	<3	<3	<5	<5	<5
FEB 15...	--	58	44	<2	<1	77	75	<3	<3	6	<5	<5
APR 06...	--	51	40	<1	<.5	170	160	<3	<3	<5	<5	<5
MAY 21...	--	67	62	<1	<.5	290	300	<3	<3	<5	<5	<5
JUN 13...	--	98	76	<1	<1	310	310	<3	<3	<5	6	<5
AUG 06...	--	81	70	<1	<1	560	540	<3	<3	<5	<5	<5
SEP 13...	--	76	70	<1	<.5	540	530	<3	<3	<5	<5	<5

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05540500 DU PAGE RIVER AT SHOREWOOD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT 03...	<5	<5	<5	570	<50	<50	<50	47	18	--	5	<5
NOV 18...	<5	<5	<5	120	<50	<50	<50	9	5	<.1	9	<5
JAN 23...	<5	<5	<5	91	<50	<50	<50	37	33	<.1	<5	<5
FEB 15...	<5	--	--	1800	84	<50	<50	66	19	--	7	<5
APR 06...	<5	13	<5	890	<50	<50	<50	55	27	--	<5	<5
MAY 21...	<5	5	<5	440	<50	<50	<50	48	21	--	<5	<5
JUN 13...	<5	10	<5	2400	<50	<50	<50	130	15	--	6	6
AUG 06...	<5	<5	<5	830	<50	<50	<50	110	34	--	<5	<5
SEP 13...	<5	26	19	500	<50	<50	<50	75	43	--	<5	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 03...	<3	<3	690	690	<5	<5	<100	120	.00	--	0
NOV 18...	<3	<3	740	750	<5	<5	120	<100	.01	<1	0
JAN 23...	<3	<3	710	710	<5	<5	<100	<100	.02	<1	0
FEB 15...	<3	<3	170	160	<5	<5	<100	<100	.01	--	0
APR 06...	<3	<3	280	280	<5	<5	<100	<100	.01	--	1
MAY 21...	<3	<3	510	500	<5	<5	<100	<50	.00	--	0
JUN 13...	<3	<3	530	530	<5	<5	110	<100	.00	--	3
AUG 06...	<3	<3	890	860	<5	<5	<50	<50	.00	--	1
SEP 13...	<3	<5	870	840	<5	<5	<100	<50	.01	--	0

05541710 AUX SABLE CREEK NEAR MORRIS, IL

LOCATION.--Lat 41°25'02", long 88°20'51", in NW¼NW¼ sec.20, T.34 N., R.8 E., Grundy County, Hydrologic Unit 07120005, at bridge on U.S. Highway 6, 0.4 mi downstream from Collins Run, 6.0 mi northeast of Morris, and at mile 6.4.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1968-69, 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DW 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD- NESS (MG/L AS CACO3) (00900)
OCT 13...	1130	17002	17002	700	7.2	12.0	3.0	6.4	7	330	--
NOV 18...	1130	17002	17002	729	7.9	6.0	2.0	10.8	13	40	--
JAN 25...	1000	17002	17002	737	7.6	.0	7.0	12.9	16	320	--
FEB 17...	1200	17002	17002	577	7.5	4.5	16	16.4	13	320	--
APR 02...	1030	17002	17002	636	7.7	7.0	13	11.0	1	77	--
MAY 04...	1100	17002	17002	620	7.5	9.0	10	10.8	4	190	--
JUL 03...	1000	17002	17002	682	7.6	22.0	21	7.4	9	430	--
AUG 07...	0900	17002	17002	672	7.0	27.5	8.0	5.9	7	54	--
SEP 12...	0900	17002	17002	754	7.6	20.5	4.0	6.8	19	46	370

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
OCT 13...	--	.00	81	--	50	--	16	--	3.4	--	240
NOV 18...	--	.00	88	--	47	--	16	--	2.8	--	260
JAN 25...	--	.00	94	--	46	--	14	--	1.9	--	268
FEB 17...	--	.00	59	--	28	--	9.1	--	1.9	--	164
APR 02...	--	.00	78	--	39	--	7.1	--	1.4	--	200
MAY 04...	--	.00	88	--	45	--	7.0	--	1.4	--	200
JUL 03...	--	.00	71	--	42	--	11	--	1.5	--	216
AUG 07...	--	.00	54	--	47	--	15	--	2.5	--	204
SEP 12...	130	.00	62	61	55	53	21	22	3.9	3.9	240

05541710 AUX SABLE CREEK NEAR MORRIS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
OCT											
13...	110	27	3	.300	.010	<.001	--	--	310	--	57
NOV											
18...	83	9	4	6.30	.010	<.001	--	--	98	--	56
JAN											
25...	77	22	2	9.30	.090	<.001	--	--	440	--	61
FEB											
17...	41	43	2	10.0	.050	<.001	.120	.100	2400	--	43
APR											
02...	55	10	2	12.0	.000	<.001	.060	.010	280	--	48
MAY											
04...	48	23	1	12.0	.020	<.001	.030	.010	680	--	53
JUL											
03...	67	35	6	6.60	.030	<.001	.060	.030	1100	--	68
AUG											
07...	94	11	4	.000	.020	<.001	--	--	300	--	59
SEP											
12...	98	13	3	.100	.040	<.001	.110	.090	270	<50	71

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT										
13...	--	<1	--	76	--	<3	--	<5	--	<5
NOV										
18...	--	<1	--	80	--	<3	--	7	--	<5
JAN										
25...	--	<1	--	54	--	<3	--	7	--	<5
FEB										
17...	--	<2	--	51	--	<3	--	<5	--	<5
APR										
02...	--	<1	--	<50	--	<3	--	<5	--	<5
MAY										
04...	--	<1	--	70	--	<3	--	<5	--	<5
JUL										
03...	--	<1	--	76	--	<3	--	<5	--	<5
AUG										
07...	--	<1	--	79	--	<3	--	<5	--	<5
SEP										
12...	71	<1	<1	75	71	<3	<3	6	<5	<5

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05541710 AUX SABLE CREEK NEAR MORRIS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT 13...	--	<5	--	300	--	<50	--	41	--	<.1
NOV 18...	--	<5	--	180	--	<50	--	16	--	<.1
JAN 25...	--	<5	--	350	--	<50	--	46	--	<.1
FEB 17...	--	<5	--	2100	--	<50	--	56	--	<.1
APR 02...	--	<5	--	370	--	<50	--	16	--	<.1
MAY 04...	--	<5	--	800	--	<50	--	24	--	--
JUL 03...	--	<5	--	1100	--	<50	--	40	--	<.1
AUG 07...	--	<5	--	360	--	<50	--	240	--	<.1
SEP 12...	<5	21	8	370	<50	<50	<50	70	14	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 13...	<5	--	<3	--	140	--	<5	--	<50	--
NOV 18...	7	--	4	--	170	--	<5	--	<50	--
JAN 25...	9	--	3	--	150	--	<5	--	<50	--
FEB 17...	<5	--	<3	--	140	--	<5	--	<100	--
APR 02...	<5	--	<3	--	120	--	<5	--	<50	--
MAY 04...	<5	--	5	--	120	--	<5	--	<100	--
JUL 03...	<5	--	<3	--	140	--	<5	--	<50	--
AUG 07...	7	--	<3	--	130	--	<5	--	<50	--
SEP 12...	5	<5	<3	<3	160	160	<5	<5	<50	<50

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05542000 MAZON RIVER NEAR COAL CITY, IL

LOCATION.--Lat 41°17'10", long 88°21'35", in SW¼SW¼ sec.31, T.33 N., R.8 E., Grundy County, Hydrologic Unit 07120005, on right bank at downstream side of bridge on State Highway 113, 0.2 mi downstream from Johnny Run, 4 mi west of Coal City, and at mile 15.0.

DRAINAGE AREA.--455 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1035: 1943(P). WSP 1115: 1946. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 527.41 ft National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1940, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods and those for period of no gage-height record, Aug. 13 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--45 years, 338 ft³/s, 10.09 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s Dec. 4, 1982, gage height, 19.51 ft; maximum gage height, 19.70 ft July 15, 1958; no flow at times in many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 8, 1924, reached a stage of about 21 ft, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 12	1500	5350	9.33	Mar. 21	0345	6360	10.16
Feb. 13	2030	*16800	*16.82	May 23	1600	5920	9.81
Mar. 16	1900	5530	9.48				

Minimum daily discharge, 1.3 ft³/s Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	21	554	130	92	346	685	541	860	46	7.7	1.5
2	13	24	417	128	90	354	585	433	685	44	6.9	1.5
3	13	30	333	130	102	328	560	404	541	41	6.5	1.7
4	11	30	295	140	118	275	585	365	455	39	6.3	2.5
5	11	27	268	150	138	240	944	301	413	37	7.4	3.5
6	11	26	510	141	160	215	745	267	354	40	14	3.0
7	11	24	592	136	180	192	570	257	307	40	7.6	2.5
8	11	23	452	131	150	175	476	236	286	36	5.9	4.0
9	10	22	358	125	120	162	442	215	283	30	5.3	5.0
10	10	23	295	120	160	148	378	201	280	26	5.3	4.5
11	10	31	1120	115	350	141	335	193	224	35	5.9	4.0
12	12	37	4800	110	3260	139	332	180	198	40	6.5	3.5
13	11	42	2950	108	12300	135	385	165	188	38	7.0	3.0
14	12	39	2310	104	8830	138	368	175	209	32	9.0	2.5
15	9.4	36	2520	102	2560	182	362	144	175	25	25	2.0
16	8.6	31	1390	98	1850	4130	392	137	157	20	15	1.4
17	9.4	29	915	97	1590	3260	421	135	157	17	10	1.4
18	8.6	28	300	96	1500	1810	404	138	146	13	6.0	1.4
19	7.7	28	300	95	1960	1500	354	140	127	10	5.0	1.4
20	8.2	36	350	94	1470	4520	324	339	108	9.9	4.5	2.0
21	14	68	300	94	1190	5060	297	1140	97	9.7	4.0	2.3
22	34	78	260	93	1050	2820	967	894	96	9.5	3.5	2.6
23	64	522	238	92	935	2110	1800	4530	97	9.2	3.0	3.0
24	51	968	210	91	800	1740	1230	2600	89	8.7	2.0	3.5
25	45	522	190	90	672	1740	953	1450	74	9.3	1.8	4.0
26	35	351	174	89	560	2280	775	2910	65	11	1.5	3.8
27	29	351	161	94	481	1660	654	1790	68	13	1.5	3.0
28	25	2120	151	106	267	2070	560	1640	69	13	1.4	2.7
29	21	1510	144	120	254	1370	468	2800	61	12	1.3	2.5
30	21	838	138	106	---	985	700	1660	50	10	1.4	2.4
31	22	---	133	96	---	805	---	1160	---	8.8	1.4	---
TOTAL	571.9	7915	23328	3421	43189	41030	18351	27540	6919	733.1	189.6	82.1
MEAN	18.4	264	753	110	1489	1324	612	888	231	23.6	6.12	2.74
MAX	64	2120	4800	150	12300	5060	1800	4530	860	46	25	5.0
MIN	7.7	21	133	89	90	135	297	135	50	8.7	1.3	1.4
CFSM	.04	.58	1.65	.24	3.27	2.91	1.35	1.95	.51	.05	.01	.01
IN.	.05	.65	1.91	.28	3.53	3.35	1.50	2.25	.57	.06	.02	.01

CAL YR 1983 TOTAL 160177.2 MEAN 439 MAX 8420 MIN 5.6 CFSM .96 IN. 13.10
WTR YR 1984 TOTAL 173269.7 MEAN 473 MAX 12300 MIN 1.3 CFSM 1.04 IN. 14.17

05542000 MAZON RIVER NEAR COAL CITY, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 13...	0930	17002	17002	11	867	7.4	11.0	7.0	7.8	34	73
NOV 18...	1000	17002	17002	28	1030	7.8	6.0	2.0	12.0	13	63
JAN 25...	0830	17002	17002	90	816	7.5	.0	2.0	12.5	7	820
FEB 17...	1030	17002	17002	1490	539	7.1	3.5	33	16.0	13	340
APR 02...	0930	17002	17002	595	634	7.6	7.0	14	10.8	4	340
MAY 04...	0930	17002	17002	381	693	7.6	10.0	4.0	10.3	5	210
JUL 03...	0900	17002	17002	42	759	7.7	24.0	6.0	6.9	10	120
AUG 07...	1100	17002	17002	7.6	929	7.8	30.0	12	5.6	12	45
SEP 12...	1130	17002	17002	4.0	977	7.8	22.5	2.0	7.5	22	120

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT 13...	--	--	.00	100	--	64	--	64	--	6.1	--
NOV 18...	--	--	.00	97	--	55	--	61	--	5.6	--
JAN 25...	--	--	.00	97	--	46	--	21	--	2.2	--
FEB 17...	--	--	.00	63	--	30	--	6.8	--	1.8	--
APR 02...	--	--	.00	77	--	38	--	9.0	--	1.5	--
MAY 04...	--	--	.00	88	--	46	--	12	--	1.3	--
JUL 03...	--	--	.00	75	--	44	--	25	--	2.0	--
AUG 07...	--	--	.00	57	--	45	--	81	--	4.0	--
SEP 12...	440	270	.00	71	73	60	62	61	62	5.3	5.4

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05542000 MAZON RIVER NEAR COAL CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 13...	176	300	140	20	.30	.020	<.001	--	--	720	--
NOV 18...	232	230	15	6	3.3	.020	<.001	--	--	190	--
JAN 25...	240	96	3	1	9.9	.220	<.001	--	--	110	--
FEB 17...	152	50	86	7	8.3	.090	<.001	.160	.090	900	--
APR 02...	186	63	27	4	12	.020	<.001	.050	.020	690	--
MAY 04...	200	78	12	2	13	.030	<.001	.020	.000	260	--
JUL 03...	204	120	16	4	7.7	.040	.001	.060	.050	570	--
AUG 07...	164	180	16	13	.00	.010	<.001	--	--	300	--
SEP 12...	168	280	11	5	.00	.050	.002	.080	.060	280	<50

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 13...	71	--	<1	--	330	--	<3	--	<5	--	<5
NOV 18...	51	--	<1	--	250	--	<3	--	<5	--	<5
JAN 25...	47	--	<1	--	110	--	<3	--	<5	--	<5
FEB 17...	50	--	<2	--	<50	--	<3	--	5	--	<5
APR 02...	38	--	<1	--	71	--	<3	--	<5	--	<5
MAY 04...	37	--	<1	--	110	--	<3	--	<5	--	<5
JUL 03...	50	--	<1	--	160	--	<3	--	<5	--	<5
AUG 07...	55	--	<1	--	370	--	<3	--	<5	--	<5
SEP 12...	74	76	<1	<.5	280	290	<3	<3	<5	<5	<5

05542000 MAZON RIVER NEAR COAL CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT										
13...	--	<5	--	1200	--	<50	--	180	--	<.1
NOV										
18...	--	<5	--	380	--	<50	--	32	--	<.1
JAN										
25...	--	<5	--	82	--	<50	--	16	--	<.1
FEB										
17...	--	<5	--	1000	--	<50	--	26	--	<.1
APR										
02...	--	<5	--	890	--	<50	--	27	--	<.1
MAY										
04...	--	<5	--	390	--	<50	--	19	--	--
JUL										
03...	--	<5	--	650	--	<50	--	20	--	<.1
AUG										
07...	--	5	--	390	--	<50	--	90	--	<.1
SEP										
12...	<5	26	22	380	<50	<50	<50	46	<5	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
13...	<5	--	<3	--	510	--	<5	--	130	--
NOV										
18...	5	--	<3	--	450	--	<5	--	<50	--
JAN										
25...	<5	--	<3	--	250	--	<5	--	<50	--
FEB										
17...	10	--	<3	--	100	--	<5	--	100	--
APR										
02...	<5	--	<3	--	170	--	<5	--	<50	--
MAY										
04...	<5	--	4	--	200	--	<5	--	<50	--
JUL										
03...	<5	--	<3	--	270	--	<5	--	<50	--
AUG										
07...	<5	--	<3	--	320	--	<5	--	<50	--
SEP										
12...	<5	<5	<3	<3	430	450	<5	<5	<100	<50

05543500 ILLINOIS RIVER AT MARSEILLES, IL
(National stream-quality accounting network station)

LOCATION.--Lat 41°19'40", long 88°43'10", in SE1/4SW1/4 sec.13, T.33 N., R.4 E., La Salle County, Hydrologic Unit 07120005, on right bank 0.4 mi downstream from dam in Marseilles, 6.9 mi upstream from Fox River and at mile 246.5.

DRAINAGE AREA.--8,259 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1919 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 462.91 ft National Geodetic Vertical Datum of 1929. October 1919 to January 1935, nonrecording gage at site at Morris, 16.6 mi upstream, at datum 478.50 ft NGVD. January 1935 to September 1939, water-stage recorder at site 300 ft downstream from site used 1919-35 and at that datum.

REMARKS.--Water-discharge records good. Figures of daily discharge include flow through navigation locks. Flow regulated by powerplants and navigation dam above station. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal (station 05537000).

AVERAGE DISCHARGE.--65 years, 10,770 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 94,100 ft³/s Dec. 4, 1982, gage height, 16.78 ft; minimum daily, 1,460 ft³/s Oct. 16, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 26.2 ft at Morris occurred in 1831, and a stage of 25.4 ft (ice jam) occurred at present site on Jan. 21, 1916.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62,800 ft³/s Feb. 14, gage height, 12.46 ft; minimum daily, 3,470 ft³/s Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4270	4930	16400	7700	4890	9940	20000	15900	25800	7640	5390	5840
2	4270	6660	13000	7370	4880	9280	17200	14800	23100	7360	5620	8560
3	3920	5770	11300	7090	5410	9280	15800	14300	19300	7880	5820	8560
4	4550	4680	10100	7400	5040	8870	18100	13000	16000	7220	5180	7700
5	4280	4510	8900	7100	6130	8920	17500	11800	14400	7410	4960	5120
6	4060	3840	10500	6700	5390	8470	16700	10900	13400	6750	5620	4060
7	4120	3950	12200	6100	6250	7590	14600	10800	12800	6880	6070	4360
8	4480	4030	12900	5900	6790	8190	14300	9660	11600	6060	5960	4020
9	4250	4000	12200	5600	5780	7140	12800	10200	12600	6090	6050	5190
10	4150	5290	11600	5700	6110	7030	11700	9100	12900	6460	7830	4630
11	4170	4750	15300	5900	7620	6850	11100	8850	13100	9570	7550	5300
12	6600	3970	29900	5600	15400	7050	12300	8710	10800	7640	7410	3470
13	4650	3960	32800	5400	41100	5980	13900	8460	11300	7500	6220	4760
14	4320	5840	31500	5400	59300	7460	12900	8300	13600	6710	6040	5230
15	4690	5140	34100	5200	50300	9590	13700	7770	10600	6000	5660	4020
16	4080	5620	30700	5100	41600	32900	14100	6770	10000	6250	6220	5360
17	4020	3920	25700	4600	35100	36500	15400	7060	8990	5680	5400	4220
18	4510	4730	21400	4500	31100	30300	14300	6540	9060	6320	5380	3930
19	4900	5650	14700	4500	31700	25800	14200	8540	8690	5890	5570	4250
20	4640	6590	16000	4300	29800	34500	13400	10000	8220	6540	4770	4380
21	5500	6140	15000	4600	26300	43600	12300	10700	8370	7360	4540	4590
22	8220	5260	13200	5700	22300	43200	17500	18600	11000	6030	4280	4190
23	12900	13900	12100	4600	20300	39900	25200	27500	11600	5840	4860	6070
24	11000	16200	11800	4850	18300	37200	25900	31900	11800	5870	4310	4390
25	10800	13200	11200	4670	15400	33100	23400	29900	10700	5840	4160	8970
26	9420	10500	10900	5270	14200	32700	20900	30000	9570	5700	4280	9220
27	8470	11200	9420	4610	13400	30900	19200	29900	9880	5900	4210	6180
28	6760	22600	8700	5170	11900	30300	19000	31700	8540	5770	3750	5230
29	5770	22300	8600	4730	10700	28700	18000	39100	9230	5940	4930	4870
30	5860	19700	8360	5030	---	25900	17900	36900	8360	5460	4510	4450
31	4890	---	8120	4890	---	22300	---	31400	---	5520	4240	---
TOTAL	178520	238830	488600	171280	552490	649440	493300	519360	365310	203080	166790	161120
MEAN	5759	7961	15760	5525	19050	20950	16440	16740	12180	6551	5380	5371
MAX	12900	22600	34100	7700	59300	43600	25900	39100	25800	9570	7830	9220
MIN	3920	3840	8120	4300	4880	5980	11100	6540	8220	5460	3750	3470

CAL YR 1983 TOTAL 4396920 MEAN 12050 MAX 61300 MIN 3840
WTR YR 1984 TOTAL 4187820 MEAN 11440 MAX 59300 MIN 3470

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
05...	1100	81700	17002	3640	698	7.2	21.5	--	6.8	22	--
NOV											
17...	1300	81700	80010	4630	840	7.7	9.0	7.1	10.6	--	--
17...	1305	81700	17002	4630	--	--	--	--	--	17	--
17...	1310	17002	17002	4630	822	7.0	9.0	3.0	10.0	13	64
JAN											
05...	1500	81700	17002	7050	860	7.5	.0	--	13.7	15	--
MAR											
08...	1400	81700	80010	9100	890	8.0	2.5	7.8	13.5	--	--
08...	1405	81700	17002	9100	--	--	--	--	--	36	--
APR											
26...	1030	17002	17002	21600	645	7.2	10.0	--	10.2	21	1400
26...	1100	81700	80010	20400	660	8.2	10.0	40	10.4	--	1300
26...	1105	81700	17002	20400	--	--	--	--	--	27	--
JUN											
06...	1300	81700	17002	11900	601	7.8	22.5	--	7.7	29	65
JUL											
18...	1203	81700	17002	7300	557	7.8	27.0	--	7.1	41	50
AUG											
30...	1200	81700	80010	4830	642	7.9	28.5	3.0	7.2	--	--
30...	1208	81700	17002	4830	--	--	--	--	--	210	--

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT											
05...	100	--	230	79	.00	60	59	22	21	55	58
NOV											
17...	100	340	290	110	--	--	73	--	26	--	58
17...	--	--	--	--	.00	79	--	29	--	65	--
17...	--	--	300	120	.00	76	75	27	27	65	63
JAN											
05...	65	68	340	140	.00	83	83	31	31	62	62
MAR											
08...	K30	K43	320	130	--	--	80	--	29	--	58
08...	--	--	--	--	.00	82	--	31	--	63	--
APR											
26...	--	--	270	110	.00	68	65	28	26	26	26
26...	1200	310	260	100	--	--	62	--	25	--	25
26...	--	--	--	--	.00	70	--	29	--	26	--
JUN											
06...	--	--	--	--	.00	79	--	30	--	38	--
JUL											
18...	--	--	240	95	.00	61	59	24	23	51	51
AUG											
30...	10	2400	200	64	--	--	50	--	19	--	47
30...	--	--	--	--	.00	52	--	21	--	48	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT											
05...	5.0	5.0	155	82	--	.5	--	--	--	--	21
NOV											
17...	--	5.7	182	120	77	--	.70	7.1	510	480	--
17...	6.3	--	--	--	--	--	--	--	--	--	14
17...	6.1	6.1	184	--	--	.7	--	--	--	--	20
JAN											
05...	4.8	4.8	200	110	--	.5	--	--	--	--	12
MAR											
08...	--	3.3	180	110	100	--	.30	7.4	553	500	--
08...	3.9	--	--	--	--	--	--	--	--	--	15
APR											
26...	3.1	2.7	164	--	--	.3	--	--	--	--	88
26...	--	2.5	156	79	50	--	.30	5.9	398	340	--
26...	3.3	--	--	--	--	--	--	--	--	--	96
JUN											
06...	3.9	--	185	87	--	.4	--	--	--	--	70
JUL											
18...	4.7	4.6	148	79	--	--	--	--	--	--	24
AUG											
30...	--	4.3	140	77	--	--	.60	1.4	398	--	--
30...	4.9	--	--	--	--	--	--	--	--	--	23

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)
OCT											
05...	6	.34	--	.800	.006	--	.70	1.5	1.8	.530	.440
NOV											
17...	--	--	3.8	--	--	1.40	--	1.2	--	.570	.480
17...	3	--	--	--	--	--	--	--	--	--	--
17...	5	3.9	3.8	1.40	.003	--	1.0	2.4	6.3	.510	.520
JAN											
05...	3	3.9	--	1.40	--	--	1.0	2.4	6.3	.380	.260
MAR											
08...	--	--	4.6	--	--	1.00	--	2.1	--	.290	.200
08...	2	--	--	--	--	--	--	--	--	--	--
APR											
26...	11	5.2	--	.510	.002	--	1.1	1.6	6.8	.260	.100
26...	--	--	4.8	--	--	.450	--	1.7	--	.310	.120
26...	80	--	--	--	--	--	--	--	--	--	--
JUN											
06...	16	5.3	--	.550	.017	--	1.3	1.8	7.1	.350	.180
JUL											
18...	6	2.2	--	.500	.021	--	1.3	1.8	4.0	.410	.280
AUG											
30...	--	--	3.1	--	--	.330	--	1.6	--	.320	.290
30...	16	--	--	--	--	--	--	--	--	--	--

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT											
05...	--	--	2	--	22	34	<1	<1.0	200	200	<3
NOV											
17...	--	10	--	<1	--	52	--	<.5	--	--	--
17...	220	--	--	--	42	--	<1	--	240	--	<3
17...	230	71	2	--	40	35	<1	<.5	230	230	<3
JAN											
05...	--	--	2	--	47	48	<2	<2.0	170	180	<3
MAR											
08...	--	<10	--	1	--	53	--	<.5	--	--	--
08...	--	--	--	--	40	--	<1	--	180	--	<3
APR											
26...	1700	<50	1	--	50	32	<1	<.5	100	99	<3
26...	--	<10	--	1	--	47	--	<1.0	--	--	--
26...	1800	--	--	--	51	--	<1	--	110	--	<3
JUN											
06...	1400	--	2	--	59	--	<2	--	130	--	<3
JUL											
18...	660	110	4	--	43	49	<1	<1.0	170	190	<3
AUG											
30...	--	20	--	3	--	45	--	<.0	--	--	--
30...	660	--	--	--	36	--	<1	--	180	--	<3

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)
OCT											
05...	<3	<5	<5	<5	<5	<5	5	460	<5	<50	<50
NOV											
17...	<1	--	<1	--	<3	--	3	--	14	--	1
17...	--	10	--	<5	--	36	--	620	--	<50	--
17...	<3	8	<5	<5	<5	65	<5	650	<50	<50	<50
JAN											
05...	<3	<5	<5	<5	<5	6	<5	420	<50	<50	<50
MAR											
08...	<1	--	<1	--	<3	--	3	--	12	--	1
08...	--	8	--	<5	--	7	--	540	--	<50	--
APR											
26...	<3	9	6	<5	<5	17	6	2600	<50	<50	<50
26...	<1	--	<1	--	<3	--	7	--	14	--	<1
26...	--	5	--	<5	--	20	--	2700	--	<50	--
JUN											
06...	--	<5	--	<5	--	13	--	1600	--	<50	--
JUL											
18...	<3	<5	<5	<5	<5	10	<5	740	<50	<50	<50
AUG											
30...	<1	--	1	--	<3	--	2	--	14	--	1
30...	--	9	--	<5	--	5	--	520	--	<50	--

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05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)
OCT											
05...	53	7	<.1	--	11	6	--	<3	<3	270	270
NOV											
17...	--	25	--	<.1	--	20	<1	--	<1	--	310
17...	47	--	<.1	--	23	--	--	<3	--	330	--
17...	45	24	<.1	--	22	22	--	<3	<3	310	310
JAN											
05...	51	44	<.1	--	21	11	--	<3	<3	300	310
MAR											
08...	--	38	--	.2	--	12	<1	--	<1	--	250
08...	56	--	<.1	--	14	--	--	<3	--	240	--
APR											
26...	93	15	<.1	--	<5	<5	--	<3	<3	190	180
26...	--	15	--	<.1	--	16	<1	--	<1	--	190
26...	97	--	<.1	--	<5	--	--	<3	--	190	--
JUN											
06...	74	--	<.1	--	<5	--	--	<3	--	260	--
JUL											
18...	52	<5	.1	--	6	<5	--	<3	<3	290	290
AUG											
30...	--	3	--	.3	--	10	<1	--	<1	--	260
30...	57	--	.1	--	32	--	--	<3	--	290	--

DATE	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
05...	<5	<5	110	100	.02	<5	0	--	--	--
NOV										
17...	--	<6	--	19	--	--	--	13	163	97
17...	<5	--	190	--	.01	<5	0	--	--	--
17...	<5	<5	240	220	.01	<1	2	--	--	--
JAN										
05...	<5	<5	<100	<100	.01	<5	0	--	--	--
MAR										
08...	--	<6	--	22	--	--	--	16	393	93
08...	<5	--	<50	--	.01	<5	0	--	--	--
APR										
26...	<5	<5	<50	<50	--	<1	0	--	--	--
26...	--	<6	--	20	--	--	--	100	5510	95
26...	<5	--	<50	--	.01	<5	1	--	--	--
JUN										
06...	<5	--	<100	--	.01	<5	1	--	--	--
JUL										
18...	<5	<5	<50	<50	<.01	<5	0	25	493	99
AUG										
30...	--	<6	--	22	--	--	--	21	274	97
30...	<5	--	<100	--	.02	<5	1	--	--	--

05546500 FOX RIVER AT WILMOT, WI

LOCATION.--Lat 42°30'40", long 88°10'45", in SW¼ sec.30, T.1 N., R.20 E., Kenosha County, Hydrologic Unit 07120006, on right bank 100 ft downstream from bridge on County Trunk Highway C, 300 ft upstream from Wilmot Dam, 1.0 mi north of Wisconsin-Illinois State line, and 6.0 mi upstream from Fox Chain of Lakes.

DRAINAGE AREA.--868 mi^2.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1308: 1943(M), 1945(M). WDR WI-67-1: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 735.22 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 1, 1956, nonrecording gage and concrete dam.

REMARKS.--Records good except those for winter periods, Dec. 8, 9, Dec. 18 to Jan. 4, and Jan. 8-30, which are fair. Three 6-ft lift gates in Wilmot Dam were in operation during the year; discharge through gates computed by weir and orifice formulas and added to flow over dam. Gage-height telemeter at station.

AVERAGE DISCHARGE.--45 years, 532 ft^3/s, 8.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,520 ft^3/s Mar. 31, 1960, gage height, 9.25 ft, from graph based on gage readings; no flow part of day Oct. 26, 1945; minimum daily discharge, 35 ft^3/s Sept. 9, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft^3/s Feb. 18, gage height, 6.98 ft; minimum daily, 182 ft^3/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	435	998	520	318	1110	953	1640	1740	755	261	213
2	303	506	926	520	322	1040	893	1680	1450	711	255	213
3	326	497	758	500	330	981	846	1550	1280	620	243	216
4	331	445	768	500	334	934	792	1460	1190	464	238	217
5	341	427	786	511	339	790	782	1420	1130	459	247	223
6	340	418	835	469	325	720	726	1380	1060	448	239	213
7	331	395	634	439	324	711	688	1310	1110	418	255	214
8	340	379	620	410	329	709	656	1220	1140	398	316	213
9	353	385	600	390	331	643	594	1070	1190	318	324	211
10	342	416	602	360	334	620	569	1030	1170	312	316	213
11	325	449	690	330	351	580	501	978	1010	597	308	220
12	361	423	983	350	427	560	505	895	775	735	290	214
13	424	383	1140	340	1040	560	688	814	684	646	268	211
14	422	371	1130	340	1530	560	859	863	664	617	249	206
15	400	384	1170	330	1940	600	923	836	639	617	237	220
16	398	416	1150	330	2100	640	1090	800	610	618	232	220
17	393	427	832	330	2200	660	1190	769	554	590	234	213
18	381	421	800	320	2230	700	1120	750	639	561	224	208
19	357	469	760	320	1980	749	1070	752	913	529	218	203
20	347	597	740	320	2000	777	1030	757	832	496	210	198
21	348	780	700	320	2040	916	980	731	734	496	198	187
22	394	738	680	310	2020	979	999	726	719	577	232	182
23	478	804	660	310	1960	991	1260	760	1050	426	251	185
24	520	971	640	310	1900	1060	1560	753	1160	229	234	186
25	496	920	620	300	1750	1170	1660	877	1120	206	223	327
26	500	854	600	300	1610	1200	1540	1480	1020	327	214	496
27	496	834	600	300	1480	1200	1350	1600	987	288	206	370
28	476	981	580	310	1290	1180	1280	1510	969	235	207	328
29	461	1200	560	310	1180	1150	1260	1750	809	247	211	326
30	443	1150	540	310	---	1090	1400	1990	778	268	232	313
31	423	---	540	310	---	1030	---	1930	---	262	224	---
TOTAL	12110	17875	23642	11319	34314	26610	29764	36081	29126	14470	7596	7159
MEAN	391	596	763	365	1183	858	992	1164	971	467	245	239
MAX	520	1200	1170	520	2230	1200	1660	1990	1740	755	324	496
MIN	260	371	540	300	318	560	501	726	554	206	198	182
CFSM	.45	.69	.88	.42	1.36	.99	1.14	1.34	1.12	.54	.28	.28
IN.	.52	.77	1.01	.49	1.47	1.14	1.28	1.55	1.25	.62	.33	.31

CAL YR 1983 TOTAL 294839 MEAN 808 MAX 3920 MIN 202 CFSM .93 IN 12.64
WTR YR 1984 TOTAL 250066 MEAN 683 MAX 2230 MIN 182 CFSM .79 IN 10.72

05546700 FOX RIVER NEAR CHANNEL LAKE, IL

LOCATION.--Lat 42°28'45", long 88°10'42", in SW¼ sec.10, T.46 N., R.20 E., Lake County, Hydrologic Unit 07120006, at bridge on State Highway 173, 1.3 mi west of Channel Lake, 3.4 mi upstream from Grass Lake, and at mile 113.6.

DRAINAGE AREA.--871 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year. Additional chemical data for water years 1971-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DT 35.

REMARKS.--Water-discharge records from Fox River at Wilmot, Wisconsin (station 05546500) were used for this site.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
17...	1030	17002	17002	448	682	8.3	13.5	5.0	10.3	18	64
DEC											
13...	1030	17002	17002	1160	646	7.6	1.0	10	15.5	24	1500
JAN											
10...	1130	17002	17002	411	741	8.1	.0	2.0	11.9	13	57
FEB											
06...	1300	17002	17002	E316	764	7.4	.0	1.0	10.0	12	160
MAR											
19...	0900	17002	17002	774	770	7.9	1.0	2.0	10.1	11	64
MAY											
07...	0930	17002	17002	1260	674	7.7	15.5	9.0	9.4	38	170
JUN											
11...	1000	17002	17002	1060	714	7.4	23.0	16	15.2	36	150
JUL											
17...	1030	17002	17002	654	635	7.7	25.0	29	8.1	31	54
SEP											
04...	1000	17002	17002	220	768	7.8	20.5	17	6.9	27	36

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT											
17...	340	83	.00	66	66	41	42	32	35	2.9	3.0
DEC											
13...	340	100	.00	79	75	39	38	27	28	3.6	3.5
JAN											
10...	380	81	.00	85	81	45	43	36	35	3.1	3.0
FEB											
06...	390	99	.00	83	85	44	44	41	50	2.9	3.0
MAR											
19...	340	100	.00	73	72	40	39	32	31	3.0	2.9
MAY											
07...	400	150	.00	90	87	46	45	27	2[illegible]	2.8	2.5
JUN											
11...	340	92	.00	72	73	37	38	25	27	3.4	3.4
JUL											
17...	310	75	.00	67	63	37	36	32	31	2.9	2.6
SEP											
04...	310	68	.00	59	60	38	39	37	38	3.7	3.7

E Estimated.

05546700 FOX RIVER NEAR CHANNEL LAKE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 17...	256	49	58	.3	34	11	1.00	.010	<.001	2.2	2.2
DEC 13...	240	58	50	.2	34	12	3.10	.200	<.001	1.3	1.5
JAN 10...	300	58	66	.2	5	2	2.70	.810	.009	.69	1.5
FEB 06...	296	51	69	.2	2	2	2.80	.710	.002	.59	1.3
MAR 19...	240	52	64	.2	5	5	2.50	.210	.002	.67	.88
MAY 07...	250	48	50	.2	51	9	1.70	.030	<.001	1.5	1.5
JUN 11...	248	42	44	.3	38	19	1.90	.130	.002	1.8	1.9
JUL 17...	232	38	49	.2	51	19	.800	.030	<.001	1.5	1.5
SEP 04...	244	50	64	.2	41	21	.800	.110	.003	1.5	1.6

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
OCT 17...	3.2	.070	.020	440	89	1	45	39	<1	<1
DEC 13...	4.6	.140	--	390	100	<1	47	40	<1	<1
JAN 10...	4.2	.060	--	130	62	2	47	44	<2	<2
FEB 06...	4.1	.060	.040	110	<50	2	45	44	<1	<2
MAR 19...	3.4	.060	.040	87	60	3	38	36	<1	<1
MAY 07...	3.2	.120	.010	520	<50	2	45	36	<1	<.5
JUN 11...	3.8	.140	.080	760	<50	5	54	48	<1	<1
JUL 17...	2.3	.180	.040	500	<50	6	58	47	<1	<.5
SEP 04...	2.4	.160	.070	620	70	4	54	48	<1	<.5

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT 17...	62	66	<3	<3	<5	<5	<5	<5	<5	<5
DEC 13...	<50	<50	<3	<3	7	8	<5	<5	<5	16
JAN 10...	52	50	<3	<3	<5	<5	<5	<5	<5	6
FEB 06...	<50	<50	<3	<3	6	<5	<5	<5	<5	<5
MAR 19...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
MAY 07...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
JUN 11...	62	68	<3	<3	9	6	<5	<5	<5	<5
JUL 17...	62	61	<3	<3	7	8	<5	<5	<5	<5
SEP 04...	65	74	<3	<3	<5	<5	<5	<5	<5	<5

05546700 FOX RIVER NEAR CHANNEL LAKE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 17...	610	<50	<50	<50	71	10	<.1	10	5	<3
DEC 13...	700	140	<50	<50	53	26	<.1	5	<5	<3
JAN 10...	77	<50	<50	<50	24	21	<.1	<5	8	<3
FEB 06...	160	<50	<50	<50	25	27	<.1	<5	<5	<3
MAR 19...	240	59	<50	<50	29	23	<.1	<5	<5	<3
MAY 07...	1100	64	<50	<50	82	12	<.1	<5	<5	<3
JUN 11...	990	<50	<50	<50	88	21	<.1	<5	<5	<3
JUL 17...	790	<50	<50	<50	110	15	<.1	9	7	<3
SEP 04...	620	<50	<50	<50	97	14	--	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 17...	<3	1300	1300	<5	<5	<100	100	.00	<1	1
DEC 13...	<3	650	600	<5	<5	<50	<50	.00	<1	0
JAN 10...	<3	960	910	<5	<5	<50	<50	.00	<1	1
FEB 06...	<3	1300	1200	<5	<5	<50	<50	.00	<1	1
MAR 19...	<3	1000	1000	<5	<5	<50	<50	.00	<1	1
MAY 07...	<3	570	530	<5	<5	<100	<50	.00	2	2
JUN 11...	<3	650	640	<5	<5	<100	<100	.00	<1	0
JUL 17...	<3	1000	960	<5	<5	<50	<50	.00	<1	1
SEP 04...	<3	950	940	<5	<5	<50	<50	.04	<1	1

05547000 CHANNEL LAKE NEAR ANTIOCH, IL

LOCATION.--Lat 42°28'20", long 88°08'50", in NW¼NE¼ sec.14, T.46 N., R.9 E., Lake County, Hydrologic Unit 07120006, on right bank 30 ft downstream from bridge on State Highway 173, at dredged channel outlet of Channel Lake, 0.8 mi southwest of natural outlet, and 3 mi west of Antioch.

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft National Geodetic Vertical Datum of 1929 (levels by Illinois Department of Transportation). Prior to Oct. 1, 1971, at datum 2.21 ft higher.

REMARKS.--Gage heights estimated Jan. 12 to Feb. 12, Mar. 10-21, June 4 to July 4. Stage controlled by McHenry Dam on Fox River near McHenry.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.29 ft, present datum, Apr. 6, 1960; minimum, 1.65 ft Jan. 25, 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.87 ft Feb. 22; minimum, 2.42 ft Mar. 15.

GAGE HEIGHT (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.09	3.98	3.87	3.11	2.52	3.97	3.29	4.44	4.78	4.46	4.15	4.11
2	4.08	3.97	3.78	3.11	2.49	3.81	3.28	4.45	4.71	4.43	4.15	4.09
3	4.14	3.77	3.66	3.08	2.51	3.66	3.21	4.40	4.61	4.41	4.15	4.03
4	4.15	3.75	3.54	3.10	2.52	3.52	3.28	4.42	4.51	4.39	4.16	4.06
5	4.15	3.71	3.43	3.05	2.54	3.39	3.25	4.44	4.48	4.36	4.18	4.04
6	4.15	3.68	3.33	2.98	2.56	3.20	3.20	4.42	4.46	4.29	4.19	4.08
7	4.12	3.67	3.25	2.95	2.58	3.04	3.15	4.46	4.56	4.26	4.18	4.20
8	4.12	3.67	3.15	2.92	2.62	2.87	3.09	4.43	4.62	4.27	4.22	4.23
9	4.07	3.65	3.07	2.90	2.59	2.81	2.98	4.36	4.57	4.26	4.27	4.14
10	4.08	3.41	2.98	2.88	2.61	2.71	2.89	4.34	4.60	4.30	4.23	4.12
11	4.14	3.38	2.93	2.86	2.70	2.62	2.84	4.29	4.46	4.48	4.17	4.09
12	4.22	3.54	3.01	2.80	2.89	2.56	2.78	4.24	4.40	4.48	4.15	4.15
13	4.21	3.56	3.11	2.75	3.17	2.50	2.86	4.17	4.31	4.47	4.14	4.13
14	4.20	3.56	3.24	2.70	3.39	2.46	2.82	4.13	4.21	4.47	4.14	4.07
15	4.18	3.43	3.43	2.67	3.79	2.42	3.00	4.09	4.13	4.41	4.15	4.06
16	4.13	3.36	3.46	2.65	4.12	2.46	3.12	4.08	4.12	4.35	4.14	4.08
17	4.10	3.35	3.45	2.62	4.35	2.50	3.30	4.12	4.20	4.34	4.17	4.09
18	4.08	3.28	3.37	2.62	4.52	2.56	3.44	4.20	4.30	4.28	4.16	4.11
19	4.01	3.30	3.36	2.61	4.70	2.53	3.56	4.26	4.36	4.32	4.12	4.10
20	3.98	3.42	3.35	2.60	4.78	2.61	3.62	4.33	4.37	4.32	4.14	4.08
21	3.92	3.40	3.38	2.59	4.81	2.70	3.58	4.34	4.30	4.30	4.17	4.05
22	4.08	3.33	3.42	2.58	4.84	2.81	3.55	4.34	4.33	4.36	4.13	4.08
23	4.10	3.64	3.39	2.59	4.84	2.91	3.75	4.26	4.44	4.39	4.06	4.08
24	4.02	3.79	3.36	2.60	4.79	2.98	3.87	4.31	4.56	4.28	4.08	4.14
25	4.01	3.65	3.34	2.62	4.73	3.03	3.97	4.29	4.59	4.22	4.10	4.25
26	4.01	3.55	3.30	2.58	4.62	3.15	4.09	4.31	4.62	4.21	4.13	4.23
27	4.07	3.45	3.27	2.57	4.41	3.21	4.20	4.35	4.65	4.18	4.15	4.24
28	4.17	3.74	3.19	2.56	4.17	3.16	4.23	4.32	4.61	4.14	4.11	4.18
29	3.99	4.02	3.13	2.55	4.13	3.20	4.08	4.53	4.57	4.11	4.12	4.14
30	4.02	3.94	3.10	2.52	---	3.26	4.59	4.65	4.51	4.10	4.08	4.12
31	3.98	---	3.12	2.50	---	3.30	---	4.76	---	4.14	4.08	---
MEAN	4.09	3.60	3.32	2.75	3.63	2.96	3.43	4.34	4.46	4.32	4.15	4.12
MAX	4.22	4.02	3.87	3.11	4.84	3.97	4.59	4.76	4.78	4.48	4.27	4.25
MIN	3.92	3.28	2.93	2.50	2.49	2.42	2.78	4.08	4.12	4.10	4.06	4.03

CAL YR 1983 MEAN 3.93 MAX 6.99 MIN 2.12
WTR YR 1984 MEAN 3.76 MAX 4.84 MIN 2.42

05547500 FOX LAKE NEAR LAKE VILLA, IL

LOCATION.--Lat 42°25'10", long 88°07'35", in SE¼SE¼ sec.36, T.46 N., R.9 E., Lake County, Hydrologic Unit 07120006, on east shore of Columbia Bay of Fox Lake, 2.5 mi west of Lake Villa.

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft National Geodetic Vertical Datum of 1929 (levels by Illinois Department of Transportation). Prior to Dec. 15, 1939, nonrecording gage at same site at datum 2.26 ft higher. Dec. 15, 1939, to Sept. 30, 1971, at datum 2.26 ft higher.

REMARKS.--Gage heights estimated Dec. 13 to Jan. 9, Jan. 21 to Feb. 5, Feb. 9-12. Stage controlled by McHenry Dam on Fox River near McHenry.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.18 ft, present datum, Apr. 6, 1960; minimum, 1.83 ft, present datum, Jan. 11-14, 16-18, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.73 ft Feb. 22; minimum, 2.34 ft Mar. 15.

GAGE HEIGHT (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.07	3.97	3.82	3.07	2.47	3.88	3.19	4.38	4.68	4.36	4.11	4.09
2	4.08	3.96	3.73	3.07	2.42	3.73	3.16	4.38	4.66	4.33	4.12	4.12
3	4.13	3.81	3.63	3.01	2.45	3.58	3.11	4.38	4.56	4.34	4.12	4.10
4	4.17	3.76	3.51	3.05	2.47	3.44	3.14	4.38	4.45	4.33	4.13	4.09
5	4.16	3.72	3.40	2.99	2.50	3.30	3.13	4.35	4.38	4.30	4.14	4.07
6	4.14	3.66	3.32	2.92	2.54	3.14	3.07	4.34	4.37	4.30	4.15	4.06
7	4.12	3.63	3.20	2.89	2.54	2.94	2.99	4.39	4.46	4.24	4.16	4.09
8	4.12	3.62	3.09	2.88	2.59	2.81	2.89	4.40	4.52	4.19	4.21	4.12
9	4.11	3.62	3.02	2.82	2.52	2.67	2.83	4.34	4.48	4.19	4.23	4.14
10	4.11	3.60	2.93	2.80	2.55	2.60	2.77	4.27	4.50	4.26	4.23	4.13
11	4.12	3.59	2.86	2.77	2.61	2.53	2.70	4.24	4.38	4.46	4.19	4.12
12	4.19	3.54	2.93	2.73	2.80	2.48	2.61	4.20	4.31	4.46	4.16	4.11
13	4.18	3.52	3.06	2.70	3.02	2.42	2.70	4.15	4.23	4.43	4.13	4.14
14	4.18	3.48	3.20	2.67	3.32	2.37	2.77	4.10	4.13	4.40	4.12	4.13
15	4.11	3.47	3.30	2.63	3.73	2.35	2.95	4.05	4.04	4.38	4.13	4.13
16	4.10	3.44	3.35	2.61	4.04	2.41	3.15	4.03	4.03	4.34	4.12	4.10
17	4.08	3.34	3.34	2.59	4.25	2.43	3.31	4.04	4.11	4.32	4.16	4.09
18	4.04	3.26	3.32	2.59	4.42	2.50	3.43	4.13	4.20	4.28	4.17	4.10
19	3.99	3.21	3.31	2.56	4.58	2.49	3.52	4.21	4.25	4.27	4.13	4.11
20	3.95	3.33	3.29	2.55	4.67	2.53	3.57	4.26	4.27	4.28	4.11	4.10
21	3.94	3.32	3.30	2.52	4.71	2.61	3.54	4.28	4.24	4.28	4.12	4.07
22	4.03	3.31	3.31	2.50	4.72	2.74	3.54	4.29	4.28	4.30	4.16	4.08
23	4.05	3.54	3.32	2.50	4.73	2.79	3.69	4.23	4.37	4.33	4.12	4.09
24	4.00	3.66	3.31	2.51	4.72	2.87	3.78	4.15	4.49	4.28	4.10	4.11
25	3.99	3.59	3.29	2.53	4.65	2.97	3.88	4.21	4.50	4.21	4.10	4.31
26	3.98	3.54	3.25	2.51	4.55	3.06	3.96	4.26	4.52	4.18	4.11	4.30
27	3.99	3.45	3.20	2.50	4.42	3.15	3.99	4.28	4.56	4.18	4.11	4.26
28	4.05	3.64	3.13	2.49	4.29	3.19	4.08	4.35	4.52	4.14	4.12	4.22
29	4.00	3.88	3.10	2.48	4.05	3.22	4.00	4.49	4.47	4.10	4.12	4.18
30	3.99	3.88	3.05	2.47	---	3.22	4.43	4.59	4.42	4.08	4.13	4.15
31	3.97	---	3.08	2.43	---	3.20	---	4.66	---	4.10	4.10	---
MEAN	4.07	3.58	3.26	2.69	3.56	2.89	3.33	4.28	4.38	4.28	4.14	4.13
MAX	4.19	3.97	3.82	3.07	4.73	3.88	4.43	4.66	4.68	4.46	4.23	4.31
MIN	3.94	3.21	2.86	2.43	2.42	2.35	2.61	4.03	4.03	4.08	4.10	4.06

CAL YR 1983 MEAN 3.89 MAX 6.68 MIN 2.05
WTR YR 1984 MEAN 3.71 MAX 4.73 MIN 2.35

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05548000 NIPPERSINK LAKE AT FOX LAKE, IL

LOCATION.--Lat 42°24'10", long 88°10'55", in SE¼SE¼ sec.4, T.45 N., R.9 E., Lake County, Hydrologic Unit 07120006, on east shore of Nippersink Lake 300 ft upstream from Chicago, Milwaukee, St. Paul and Pacific Railroad bridge in village of Fox Lake, and at mile 106.4.

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft National Geodetic Vertical Datum of 1929 (levels by Illinois Department of Transportation). Prior to Dec. 16, 1939, nonrecording gage at same site at datum 2.13 ft higher. Dec. 16, 1939, to Sept. 30, 1971, at datum 2.13 ft higher.

REMARKS.--Gage heights estimated Dec. 30 to Jan. 9, Jan. 31 to Mar. 20. Stage controlled by McHenry Dam on Fox River near McHenry.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.12 ft, present datum, Apr. 5, 1960; minimum observed, 1.70 ft Feb. 10, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.70 ft Feb. 22; minimum, 2.28 ft Mar. 14.

GAGE HEIGHT (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.00	3.89	3.74	2.95	2.35	4.00	3.12	4.24	4.63	4.33	4.06	4.02
2	4.00	3.88	3.66	2.95	2.32	3.72	3.12	4.37	4.59	4.28	4.07	4.03
3	4.02	3.88	3.55	2.90	2.35	3.60	3.13	4.39	4.50	4.27	4.06	4.04
4	4.09	3.72	3.43	2.92	2.39	3.45	3.14	4.34	4.39	4.27	4.08	4.01
5	4.06	3.63	3.33	2.90	2.40	3.28	3.11	4.30	4.29	4.24	4.07	4.01
6	4.04	3.58	3.24	2.87	2.41	3.10	3.04	4.31	4.29	4.22	4.08	3.99
7	4.00	3.56	3.12	2.83	2.43	2.89	2.96	4.26	4.37	4.19	4.10	3.97
8	4.07	3.54	3.01	2.80	2.42	2.72	2.90	4.26	4.36	4.14	4.14	4.00
9	4.05	3.54	2.95	2.76	2.41	2.62	2.85	4.27	4.43	4.14	4.15	4.05
10	4.05	3.64	2.86	2.72	2.43	2.57	2.77	4.22	4.36	4.21	4.18	4.06
11	4.04	3.58	2.80	2.69	2.47	2.50	2.68	4.17	4.34	4.41	4.15	4.06
12	4.09	3.48	2.88	2.66	2.50	2.40	2.60	4.14	4.21	4.40	4.11	4.03
13	4.06	3.44	2.99	2.62	2.80	2.35	2.60	4.11	4.17	4.36	4.08	4.05
14	4.03	3.40	3.11	2.59	3.10	2.28	2.75	4.05	4.11	4.31	4.07	4.07
15	4.03	3.41	3.33	2.56	3.50	2.30	2.97	4.03	4.01	4.30	4.06	4.06
16	4.00	3.37	3.33	2.52	3.80	2.39	3.18	3.99	4.00	4.26	4.07	4.03
17	3.99	3.26	3.31	2.52	4.20	2.35	3.29	3.96	4.03	4.22	4.10	4.01
18	3.96	3.18	3.24	2.50	4.30	2.30	3.42	4.06	4.14	4.22	4.10	4.01
19	3.95	3.13	3.23	2.48	4.40	2.45	3.49	4.17	4.22	4.20	4.11	4.01
20	3.94	3.11	3.23	2.46	4.60	2.52	3.56	4.23	4.25	4.23	4.07	4.02
21	3.92	3.18	3.23	2.43	4.67	2.55	3.62	4.25	4.22	4.24	4.04	4.02
22	4.00	3.26	3.25	2.40	4.70	2.68	3.64	4.22	4.26	4.25	4.07	3.99
23	4.01	3.33	3.25	2.40	4.69	2.75	3.66	4.17	4.33	4.26	4.07	4.02
24	3.92	3.42	3.22	2.41	4.67	2.84	3.74	4.04	4.41	4.23	4.04	4.01
25	3.90	3.47	3.19	2.42	4.61	2.95	3.85	4.14	4.45	4.15	4.03	4.21
26	3.89	3.49	3.14	2.41	4.57	3.04	3.90	4.21	4.44	4.14	4.02	4.21
27	3.86	3.52	3.10	2.41	4.49	3.14	3.91	4.27	4.46	4.13	4.02	4.18
28	3.88	3.54	3.06	2.40	4.41	3.23	3.91	4.40	4.46	4.10	4.04	4.12
29	3.93	3.59	2.99	2.39	4.30	3.20	3.99	4.46	4.44	4.05	4.03	4.11
30	3.93	3.72	2.93	2.36	---	3.17	3.98	4.54	4.38	4.03	4.04	4.08
31	3.90	---	2.96	2.31	---	3.16	---	4.60	---	4.04	4.02	---
MEAN	3.99	3.49	3.18	2.60	3.47	2.85	3.30	4.23	4.32	4.22	4.07	4.05
MAX	4.09	3.89	3.74	2.95	4.70	4.00	3.99	4.60	4.63	4.41	4.18	4.21
MIN	3.86	3.11	2.80	2.31	2.32	2.28	2.60	3.96	4.00	4.03	4.02	3.97

CAL YR 1983 MEAN 3.83 MAX 6.56 MIN 2.00
WTR YR 1984 MEAN 3.65 MAX 4.70 MIN 2.28

05548280 NIPPERSINK CREEK NEAR SPRING GROVE, IL

LOCATION.--Lat 42°26'37", long 88°14'51", in NE¼NW¼ sec.25, T.46 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on right bank at upstream side of bridge in Winn Road, 0.6 mi west of Spring Grove and at mile 7.4.

DRAINAGE AREA.--192 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1966 to current year.

REVISED RECORDS.--WSP 2115: 1966-67(M), 1969-70(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 746.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--18 years, 156 ft³/s, 11.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,980 ft³/s Feb. 20, 1971, gage height, 13.03 ft; minimum, 13 ft³/s Nov. 3, 1966, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1960 reached a stage of 13.7 ft, from information by local resident, and flood in July 1938 reached a stage of about 4 to 6 ft higher than that in April 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft³/s Feb. 14, gage height, 9.83 ft; minimum, 27 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	107	248	150	85	186	360	305	260	89	57	36
2	73	115	209	143	97	176	320	171	240	88	53	36
3	85	113	182	142	90	163	290	157	220	84	51	34
4	88	126	172	147	90	153	270	166	200	82	50	31
5	90	117	166	134	73	152	340	151	180	80	52	31
6	82	110	170	130	76	144	300	140	160	79	51	32
7	84	68	166	121	83	138	280	130	150	73	50	42
8	79	60	152	117	80	135	260	119	160	74	60	44
9	73	58	153	112	76	130	240	117	180	72	61	37
10	73	52	141	110	71	129	230	112	176	88	53	35
11	77	54	178	103	96	129	215	107	145	263	46	35
12	94	49	372	94	239	123	207	93	140	224	46	36
13	100	48	385	108	813	126	278	93	129	212	44	42
14	94	47	365	101	1180	125	292	96	124	182	42	35
15	82	50	351	97	1080	149	283	87	117	118	43	35
16	81	52	303	100	738	239	300	82	120	84	42	35
17	73	49	286	94	572	221	293	79	122	64	55	36
18	70	49	286	102	473	195	275	78	134	68	59	36
19	71	56	288	98	469	175	182	81	139	73	54	42
20	78	84	260	96	457	210	166	82	126	72	48	40
21	86	102	212	97	408	244	159	80	114	68	46	35
22	178	82	204	99	356	273	217	91	112	69	48	37
23	281	194	281	100	326	258	288	112	133	70	40	43
24	190	216	210	107	298	314	333	134	145	61	37	48
25	130	222	200	101	278	360	324	182	128	59	36	147
26	160	198	188	95	253	358	240	302	117	62	38	134
27	180	189	180	91	237	333	335	263	108	69	40	84
28	213	356	172	89	224	302	380	307	98	67	36	67
29	305	400	168	90	192	263	369	461	94	63	33	56
30	97	309	160	89	---	239	461	417	91	62	35	51
31	102	---	152	86	---	231	---	324	---	58	33	---
TOTAL	3545	3732	6960	3343	9500	6373	8487	5119	4362	2877	1439	1432
MEAN	114	124	225	108	328	206	283	165	145	92.8	46.4	47.7
MAX	305	400	385	150	1180	360	461	461	260	263	61	147
MIN	70	47	141	86	71	123	159	78	91	58	33	31
CFSM	.59	.65	1.17	.56	1.71	1.07	1.47	.86	.76	.48	.24	.25
IN.	.69	.72	1.35	.65	1.84	1.23	1.64	.99	.85	.56	.28	.28

CAL YR 1983 TOTAL 70317 MEAN 193 MAX 1710 MIN 47 CFSM 1.01 IN. 13.62
WTR YR 1984 TOTAL 57169 MEAN 156 MAX 1180 MIN 31 CFSM .81 IN. 11.08

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05548280 NIPPERSINK CREEK NEAR SPRING GROVE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 17...	1400	17002	17002	72	671	8.5	13.5	3.0	14.0	17	340
DEC 13...	1230	17002	17002	387	653	7.7	3.0	6.0	13.2	20	360
JAN 10...	1300	17002	17002	110	761	7.6	.0	2.0	12.2	13	10
FEB 06...	1300	17002	17002	76	750	7.6	.0	1.0	13.1	10	9
MAR 19...	1130	17002	17002	173	780	8.0	3.0	1.0	9.9	7	27
MAY 07...	1300	17002	17002	123	665	7.8	16.0	5.0	10.8	15	100
JUN 11...	1200	17002	17002	144	715	7.8	22.0	23	15.9	24	310
JUL 17...	1200	17002	17002	64	686	7.7	24.5	22	8.5	21	400
SEP 04...	1230	17002	17002	32	750	7.8	16.5	3.0	5.7	13	710

DATE	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)
OCT 17...	370	73	73	44	45	20	20	2.3	2.2	11	7
DEC 13...	--	85	--	42	--	22	--	2.9	--	16	1
JAN 10...	--	92	--	47	--	22	--	2.6	--	2	1
FEB 06...	--	95	--	48	--	26	--	2.3	--	10	8
MAR 19...	360	80	79	41	40	16	16	2.1	2.0	5	3
MAY 07...	420	91	90	47	47	13	13	1.9	1.8	20	4
JUN 11...	350	78	74	41	41	18	18	2.4	2.2	57	18
JUL 17...	340	73	70	42	41	21	22	2.3	2.2	34	15
SEP 04...	340	71	69	41	40	19	20	3.0	2.9	23	19

05548280 NIPPERSINK CREEK NEAR SPRING GROVE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)
OCT 17...	1.9	.010	<.001	1.7	1.7	3.6	.100	.030	190	<50	49
DEC 13...	3.9	.090	<.001	.81	.89	4.8	.090	.070	220	—	58
JAN 10...	3.8	.300	.001	.70	1.0	4.8	.060	.050	190	—	58
FEB 06...	4.9	.140	<.001	.60	.74	5.6	.060	.030	230	—	59
MAR 19...	3.4	.030	<.001	.49	.52	3.9	.050	.030	190	78	46
MAY 07...	3.3	.040	<.001	.86	.90	4.2	.060	.010	190	<50	52
JUN 11...	3.8	.090	.003	1.7	1.8	5.6	.150	.060	1100	<50	70
JUL 17...	2.2	.030	<.001	.87	.90	3.1	.120	.090	330	<50	67
SEP 04...	2.1	.280	.006	.72	1.0	3.1	.160	.130	290	<50	61

DATE	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT 17...	45	<1	<1	<50	<50	<3	<3	<5	<5	<5
DEC 13...	—	<1	—	<50	—	3	—	8	—	<5
JAN 10...	—	<2	—	<50	—	<3	—	<5	—	<5
FEB 06...	—	<1	—	<50	—	<3	—	<5	—	<5
MAR 19...	45	<1	<1	<50	<50	<3	<3	<5	<5	<5
MAY 07...	47	<1	<.5	<50	<50	<3	<3	<5	<5	<5
JUN 11...	55	<1	<.5	<50	<50	<3	<3	7	<5	<5
JUL 17...	58	<1	<.5	51	50	<3	<3	9	<5	<5
SEP 04...	54	<1	<.5	<50	<50	<3	<3	<5	<5	<5

05548280 NIPPERSINK CREEK NEAR SPRING GROVE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 17...	<5	<5	<5	300	<50	<50	<50	47	6	14
DEC 13...	—	<5	—	440	—	<50	—	49	—	14
JAN 10...	—	16	—	160	—	<50	—	51	—	7
FEB 06...	—	<5	—	450	—	<50	—	77	—	7
MAR 19...	<5	<5	<5	210	120	<50	<50	42	32	6
MAY 07...	<5	<5	<5	530	67	<50	<50	62	34	<5
JUN 11...	<5	11	<5	1600	<50	<50	<50	110	33	7
JUL 17...	<5	<5	<5	640	<50	<50	<50	73	20	15
SEP 04...	<5	<5	<5	520	<50	<50	<50	70	39	10

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 17...	7	<3	<3	160	210	<5	<5	<50	<50	1
DEC 13...	—	<3	—	170	—	<5	—	<50	—	—
JAN 10...	—	<3	—	180	—	<5	—	<100	—	—
FEB 06...	—	<3	—	190	—	<5	—	<50	—	—
MAR 19...	8	<3	<3	150	170	<5	<5	<50	<50	—
MAY 07...	<5	<3	<3	150	170	<5	<5	<100	<100	—
JUN 11...	<5	<3	<3	160	190	<5	<5	<100	<100	—
JUL 17...	11	<3	<3	180	240	<5	<5	<50	<50	1
SEP 04...	<5	<3	<3	180	200	<5	<5	<50	<50	—

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05548500 FOX RIVER AT JOHNSBURG, IL

LOCATION.--Lat 42°22'35", long 88°14'15", in SW1/4SW1/4 sec.18, T.45 N., R.9 E., McHenry County, Hydrologic Unit 07120006, on left bank at upstream side of bridge on Chapel Hill Road in Johnsburg, 5.5 mi upstream from McHenry Dam and at mile 103.0.

DRAINAGE AREA.--1,205 mi².

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft National Geodetic Vertical Datum of 1929 (levels by Illinois Department of Transportation). Prior to Dec. 14, 1939, nonrecording gage at same site at datum 2.16 ft higher. Dec. 14, 1939, to Sept. 30, 1971, at datum 2.16 ft higher.

REMARKS.--Stage regulated by McHenry Dam 5.5 mi downstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.55 ft, present datum, Apr. 6, 1960; minimum, 1.43 ft, present datum, Mar. 9, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.37 ft June 30; minimum, 2.01 ft Mar. 15.

GAGE HEIGHT (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.95	3.82	3.44	2.73	2.17	3.47	2.74	3.87	4.27	4.23	3.98	3.93
2	3.93	3.79	3.38	2.73	2.15	3.33	2.75	4.10	4.26	4.17	4.00	3.95
3	3.93	3.85	3.29	2.72	2.14	3.18	2.82	4.15	4.22	4.16	4.01	3.97
4	4.05	3.64	3.16	2.73	2.21	3.05	2.84	4.05	4.15	4.18	4.02	3.96
5	4.00	3.55	3.05	2.69	2.26	2.84	2.75	3.95	4.05	4.15	3.99	3.96
6	3.98	3.51	2.97	2.68	2.26	2.72	2.69	4.07	4.02	4.13	3.99	3.94
7	3.90	3.49	2.85	2.64	2.25	2.55	2.64	4.17	4.15	4.12	4.03	3.80
8	4.05	3.46	2.74	2.60	2.27	2.44	2.60	4.02	4.02	4.06	4.07	3.92
9	4.03	3.47	2.68	2.58	2.29	2.30	2.56	4.04	4.19	4.06	4.07	3.99
10	4.01	3.63	2.60	2.54	2.27	2.22	2.49	4.07	4.10	4.12	4.12	4.01
11	3.98	3.54	2.54	2.52	2.26	2.20	2.38	4.02	4.13	4.30	4.11	4.02
12	4.02	3.42	2.60	2.51	2.30	2.18	2.31	4.00	4.03	4.27	4.07	3.94
13	3.98	3.36	2.70	2.47	2.65	2.12	2.30	4.00	4.01	4.23	4.04	4.02
14	3.91	3.31	2.82	2.44	2.98	2.05	2.56	3.98	4.00	4.17	4.01	4.03
15	3.97	3.33	2.88	2.40	3.27	2.04	2.82	4.01	3.93	4.17	3.99	4.00
16	3.92	3.28	3.00	2.37	3.57	2.15	3.06	3.94	3.91	4.15	4.01	3.98
17	3.93	3.16	3.00	2.37	3.77	2.14	3.08	3.90	3.90	4.10	4.03	3.96
18	3.92	3.08	2.97	2.36	3.93	2.07	3.21	3.98	4.02	4.14	4.05	3.92
19	3.92	3.02	2.99	2.31	4.07	2.13	3.29	4.12	4.12	4.11	4.06	3.94
20	3.94	2.88	2.98	2.27	4.18	2.16	3.36	4.19	4.15	4.14	4.01	4.00
21	3.91	2.99	2.99	2.24	4.25	2.18	3.48	4.19	4.14	4.18	3.95	3.97
22	3.96	3.16	3.01	2.25	4.25	2.29	3.49	4.17	4.16	4.15	3.99	3.93
23	3.92	3.12	3.01	2.23	4.25	2.38	3.34	4.02	4.20	4.14	4.02	3.98
24	3.83	2.99	2.98	2.21	4.25	2.47	3.37	3.91	4.24	4.19	4.00	3.99
25	3.80	3.22	2.97	2.24	4.20	2.62	3.47	4.02	4.29	4.10	3.97	4.14
26	3.80	3.30	2.96	2.26	4.13	2.68	3.52	3.97	4.29	4.08	3.94	4.15
27	3.72	3.42	2.89	2.24	4.11	2.78	3.49	3.92	4.27	4.08	3.94	4.08
28	3.70	3.33	2.81	2.21	3.98	2.89	3.43	4.12	4.31	4.05	3.97	4.05
29	3.87	3.14	2.76	2.21	3.64	2.86	3.69	4.00	4.33	3.99	3.97	4.04
30	3.87	3.35	2.73	2.22	---	2.80	3.26	4.20	4.28	3.97	3.97	4.02
31	3.84	---	2.73	2.18	---	2.78	---	4.23	---	3.95	3.97	---
MEAN	3.92	3.35	2.92	2.42	3.18	2.52	2.99	4.04	4.14	4.13	4.01	3.99
MAX	4.05	3.85	3.44	2.73	4.25	3.47	3.69	4.23	4.33	4.30	4.12	4.15
MIN	3.70	2.88	2.54	2.18	2.14	2.04	2.30	3.87	3.90	3.95	3.94	3.80

CAL YR 1983	MEAN	3.64	MAX	6.12	MIN	1.77
WTR YR 1984	MEAN	3.47	MAX	4.33	MIN	2.04

05549500 FOX RIVER NEAR MC HENRY, IL

LOCATION.--Lat 42°18'35", long 88°15'05", in NW¼ sec.12, T.44 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on right bank of main channel, 300 ft upstream from McHenry Dam, 2.5 mi downstream from McHenry, and at mile 97.8.

DRAINAGE AREA.--1,250 mi².

PERIOD OF RECORD.--June 1941 to current year (gage heights only).

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft National Geodetic Vertical Datum of 1929 (levels by Illinois Department of Transportation). Prior to Oct. 1, 1971, at datum 2.07 ft higher.

REMARKS.--Stage regulated by McHenry Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.36 ft, present datum, Apr. 5, 1960; minimum, 0.32 ft, present datum, Feb. 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.36 ft July 11; minimum observed, 1.18 ft Mar. 20.

GAGE HEIGHT (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.96	3.76	2.41	2.10	1.52	2.53	1.87	3.49	3.74	4.16	4.03	3.95
2	3.92	3.70	2.65	2.09	1.55	2.40	1.96	3.69	3.78	4.15	4.06	3.98
3	3.91	3.77	2.61	2.06	1.66	2.23	2.17	3.60	3.80	4.16	4.08	4.05
4	4.06	3.51	2.48	2.15	1.93	2.09	2.14	3.55	3.80	4.21	4.07	4.00
5	3.99	3.45	2.33	1.99	1.97	1.86	1.93	3.64	3.72	4.18	4.04	4.01
6	3.98	3.45	2.27	1.97	1.92	1.76	1.93	3.78	3.84	4.17	4.05	3.95
7	3.86	3.43	1.98	1.96	1.95	1.57	1.90	3.73	3.94	4.15	4.09	3.81
8	4.08	3.41	2.00	1.95	1.95	1.51	1.87	3.82	3.70	4.07	4.13	3.84
9	4.05	3.43	1.93	1.89	1.97	1.49	1.89	3.86	4.00	4.09	4.11	4.00
10	4.02	3.69	1.78	1.79	1.80	1.58	1.79	3.82	3.81	4.16	4.19	4.03
11	3.95	3.57	1.75	1.88	1.85	1.63	1.58	3.80	3.95	4.26	4.18	4.07
12	4.00	3.37	1.88	1.86	1.99	1.63	1.67	3.83	3.81	4.20	4.12	3.96
13	3.95	3.28	2.00	1.87	2.35	1.58	1.88	3.83	3.94	4.16	4.09	4.01
14	3.86	3.22	2.17	1.82	2.38	1.56	2.44	3.82	3.93	4.10	4.07	4.08
15	3.93	3.20	2.12	1.71	2.36	1.54	2.80	3.86	3.87	4.14	4.05	4.06
16	3.88	3.19	2.21	1.70	2.58	1.58	2.99	3.81	3.95	4.13	4.08	4.02
17	3.91	2.99	1.73	1.85	2.77	1.37	2.86	3.81	3.93	4.10	4.09	3.99
18	3.90	2.91	1.61	1.82	2.93	1.25	3.00	3.96	4.10	4.16	4.10	3.94
19	3.91	2.83	1.82	1.79	3.03	1.21	3.07	4.11	4.14	4.12	4.14	3.97
20	3.94	2.65	1.83	1.62	3.16	1.20	3.15	4.16	4.12	4.18	4.07	4.01
21	3.91	2.82	2.02	1.50	3.33	1.23	3.23	4.12	4.13	4.21	3.99	4.02
22	3.91	3.02	2.30	1.37	3.31	1.33	3.11	3.98	4.18	4.16	4.04	3.95
23	3.79	2.79	2.13	1.48	3.33	1.40	2.78	3.87	4.19	4.16	4.08	4.01
24	3.71	2.46	1.99	1.70	3.36	1.50	2.72	3.67	4.19	4.23	4.05	3.93
25	3.73	2.79	1.91	1.75	3.29	1.71	2.77	3.78	4.25	4.13	4.00	4.15
26	3.74	2.93	1.96	1.75	3.23	1.82	2.79	3.70	4.16	4.12	3.96	4.15
27	3.60	3.10	1.90	1.72	3.27	1.94	2.73	3.63	4.22	4.13	3.94	4.07
28	3.62	2.83	1.78	1.69	3.21	2.11	2.74	3.90	4.24	4.10	4.00	4.05
29	3.84	2.45	1.75	1.67	2.79	2.04	3.18	3.72	4.25	4.04	4.00	4.06
30	3.83	2.75	1.90	1.58	---	1.95	2.48	3.66	4.21	4.02	4.03	4.04
31	3.80	---	2.07	1.47	---	1.92	---	3.70	---	4.00	4.00	---
MEAN	3.89	3.16	2.04	1.79	2.51	1.69	2.45	3.80	4.00	4.14	4.06	4.01
MAX	4.08	3.77	2.65	2.15	3.36	2.53	3.23	4.16	4.25	4.26	4.19	4.15
MIN	3.60	2.45	1.61	1.37	1.52	1.20	1.58	3.49	3.70	4.00	3.94	3.81

CAL YR 1983 MEAN 3.34 MAX 5.26 MIN 1.46
WTR YR 1984 MEAN 3.13 MAX 4.26 MIN 1.20

05549600 FOX RIVER AT BURTONS BRIDGE, IL

LOCATION.--Lat 42°16'44", long 88°13'31", in SE¼NW¼ sec.19, T.44 N., R.9 E., McHenry County, Hydrologic Unit 07120006, at State Highway 176 bridge, 1.1 mi downstream of Griswald Lake, 2.3 mi upstream from Cotton Creek, and at mile 95.1.

DRAINAGE AREA.--1,278 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1964, 1967-72 are published in Water-Resources Investigations 78-23 as site DT 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 04...	1200	17002	17002	753	7.5	19.0	4.0	9.3	37	27	--
NOV 21...	0730	17002	17002	642	9.7	6.5	10	7.8	30	240	330
JAN 17...	0900	17002	17002	741	7.5	.0	3.0	11.9	13	64	390
FEB 06...	1000	17002	17002	847	7.1	.0	1.0	11.9	14	<10	--
MAR 20...	0800	17002	17002	737	7.7	2.0	2.0	15.4	25	100	340
APR 25...	0830	17002	17002	651	8.1	8.5	22	13.1	33	27	330
JUN 07...	0900	17002	17002	656	8.1	25.0	12	17.0	40	410	300
JUL 16...	0800	17002	17002	576	8.0	26.0	31	9.2	46	91	270
AUG 23...	0800	17002	17002	583	7.6	21.0	27	7.9	57	18	280

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT 04...	47	--	40	--	30	--	2.9	--	47	49	34
NOV 21...	69	63	43	41	28	27	3.6	3.2	48	45	34
JAN 17...	85	83	46	45	30	31	3.3	3.2	59	62	5
FEB 06...	84	--	45	--	36	--	3.0	--	59	86	1
MAR 20...	73	72	38	38	22	22	2.9	2.8	47	46	12
APR 25...	78	71	39	38	18	19	2.8	2.5	53	42	38
JUN 07...	66	62	35	35	25	24	2.8	2.4	46	41	30
JUL 16...	53	48	37	36	28	28	2.8	2.5	45	44	46
AUG 23...	48	46	39	39	33	34	3.3	3.3	43	53	37

05549600 FOX RIVER AT BURTONS BRIDGE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT 04...	17	.10	.080	<.001	.92	1.0	1.1	.130	.090	150	--
NOV 21...	15	1.0	.080	.034	1.5	1.6	2.6	.170	.090	160	51
JAN 17...	4	2.4	.760	.002	.84	1.6	4.0	.080	.050	75	<50
FEB 06...	1	2.5	.780	<.001	.72	1.5	4.0	.090	.050	84	--
MAR 20...	3	2.2	.130	<.001	.62	.75	3.0	.080	.050	80	<50
APR 25...	13	2.1	.030	<.001	1.7	1.7	3.8	.150	.060	280	<50
JUN 07...	12	1.2	.020	.001	1.8	1.9	3.1	.100	.110	330	67
JUL 16...	22	.00	.030	.002	2.9	2.9	2.9	.140	.020	250	<50
AUG 23...	20	.00	.060	.001	2.8	2.9	2.9	.160	.040	170	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT 04...	54	--	<1	--	66	--	<3	--	<5	--	<5
NOV 21...	80	71	<1	<.5	98	91	<3	<3	<5	<5	<5
JAN 17...	53	50	<1	<2	60	54	<3	<3	<5	<5	<5
FEB 06...	57	--	<1	--	61	--	<3	--	<5	--	<5
MAR 20...	58	55	<1	<1	65	62	4	3	<5	<5	<5
APR 25...	50	42	<1	<1	52	54	<3	<3	<5	6	<5
JUN 07...	56	49	<2	<1	63	57	<3	<3	<5	<5	<5
JUL 16...	58	49	<1	<.5	58	57	<3	<3	<5	<5	<5
AUG 23...	59	53	<1	<.5	78	82	<3	<3	<5	<5	<5

05549600 FOX RIVER AT BURTONS BRIDGE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 04...	--	<5	--	<50	--	<50	--	<5	--	<5
NOV 21...	<5	<5	<5	360	<50	<50	<50	42	<5	<5
JAN 17...	<5	<5	<5	78	<50	<50	<50	26	20	6
FEB 06...	--	<5	--	130	--	<50	--	31	--	<5
MAR 20...	<5	<5	<5	230	<50	<50	<50	36	27	9
APR 25...	<5	<5	<5	630	<50	<50	<50	64	10	<5
JUN 07...	<5	9	13	460	94	<50	<50	57	25	6
JUL 16...	<5	<5	<5	400	<50	<50	<50	60	7	7
AUG 23...	<5	5	6	310	51	<50	<50	55	<5	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 04...	--	<3	--	440	--	<5	--	140	--	0
NOV 21...	<5	<3	<3	760	710	<5	<5	110	100	3
JAN 17...	<5	<3	<3	770	760	<5	<5	<50	<50	0
FEB 06...	--	<3	--	860	--	<5	--	<50	--	1
MAR 20...	<5	3	<3	470	470	7	<5	<100	<100	2
APR 25...	<5	<3	<3	440	420	<5	<5	<50	<50	0
JUN 07...	<5	<3	<3	460	440	5	<5	<50	<50	1
JUL 16...	11	<3	<3	490	470	<5	<5	<50	<50	0
AUG 23...	<5	<3	<3	540	550	<5	<5	<50	<50	0

05550000 FOX RIVER AT ALGONQUIN, IL

LOCATION.--Lat 42°09'59", long 88°17'25", in NE¼NW¼ sec.34, T.43 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on right bank 20 ft upstream from bridge on State Highway 62 (Chicago Street) in Algonquin, 140 ft upstream from Algonquin Dam, and at mile 81.6.

DRAINAGE AREA.--1,403 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1915 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1175: 1916. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 729.48 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1933, nonrecording gage at site 20 ft downstream at same datum.

REMARKS.--Water-discharge records good. Flow regulated by McHenry Dam, 16 mi upstream from station, and occasionally affected by wind action.

AVERAGE DISCHARGE.--69 years, 345 ft^3/s, 8.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,610 ft^3/s Apr. 6, 1960, Apr. 2, 1979; maximum gage height, 4.50 ft Apr. 1, 1916, from graph based on gage readings; no flow for part of Nov. 26, 1952, Nov. 20, 1953, Oct. 25, 1956, and Sept. 9, 14, 1958, result of windstorms; minimum daily discharge, 12 ft^3/s Aug. 30, 31, 1934, July 28, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,030 ft^3/s Feb. 18, gage height, 2.70 ft; minimum, 83 ft^3/s Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	886	2000	1220	641	2410	1800	2140	2600	1180	296	233
2	402	999	2040	1220	641	2290	1770	2210	2570	1070	326	232
3	387	1180	1990	1090	631	2140	1740	2410	2420	861	325	275
4	502	1210	1970	874	581	2030	1760	2480	2230	754	327	252
5	595	1080	1890	902	569	1860	1820	2270	1950	709	302	258
6	600	927	1850	918	563	1780	1790	2070	1640	677	295	217
7	538	808	1670	920	569	1640	1690	1900	1530	662	331	163
8	529	759	1640	911	579	1560	1630	1730	1580	605	375	157
9	507	678	1570	916	570	1330	1570	1720	1720	542	364	227
10	475	813	1560	892	628	1170	1520	1680	1650	445	425	261
11	461	774	1620	834	666	1110	1470	1630	1700	842	499	290
12	624	748	1740	818	783	1080	1420	1510	1580	1140	488	239
13	725	744	1780	807	1250	1090	1270	1490	1400	1170	440	301
14	681	743	1820	807	1690	1080	1150	1410	1320	1020	346	364
15	713	795	1870	805	2190	1110	1120	1290	1210	959	317	325
16	689	892	1940	768	2560	1290	1180	1230	908	960	311	294
17	702	966	1750	728	2840	1410	1410	1030	663	866	316	265
18	696	987	1610	716	3000	1370	1490	732	670	788	322	240
19	695	921	1450	714	2960	1390	1500	759	768	696	348	239
20	713	900	1410	708	2990	1430	1500	810	1040	622	319	273
21	713	968	1390	696	3020	1490	1550	914	1050	649	268	303
22	927	1000	1290	697	3010	1600	1860	1260	908	609	282	262
23	1410	1140	1280	683	3010	1640	2090	1530	954	581	312	283
24	1500	1520	1260	620	3020	1710	2170	1430	1150	641	304	255
25	1350	1670	1260	600	2960	1800	2260	1390	1230	599	270	412
26	1170	1700	1260	603	2920	1850	2260	1770	1200	559	239	654
27	1010	1760	1260	642	2920	1890	2240	2080	1210	561	221	733
28	927	1830	1260	650	2870	1980	2160	2310	1230	546	253	704
29	914	1920	1260	651	2550	1970	2120	2410	1260	501	258	606
30	877	2040	1240	648	---	1910	2010	2570	1230	436	275	551
31	862	---	1240	642	---	1860	---	2600	---	311	256	---
TOTAL	23334	33358	49170	24700	53181	50270	51320	52765	42571	22563	10010	9868
MEAN	753	1112	1586	797	1834	1622	1711	1702	1419	728	323	329
MAX	1500	2040	2040	1220	3020	2410	2260	2600	2600	1180	499	733
MIN	387	678	1240	600	563	1080	1120	732	663	311	221	157
CFSM	.54	.79	1.13	.57	1.31	1.16	1.22	1.21	1.01	.52	.23	.23
IN.	.62	.88	1.30	.65	1.41	1.33	1.36	1.40	1.13	.60	.27	.26

CAL YR 1983 TOTAL 501947 MEAN 1375 MAX 5130 MIN 267 CFSM .98 IN. 13.31
WTR YR 1984 TOTAL 423110 MEAN 1156 MAX 3020 MIN 157 CFSM .82 IN. 11.22

05550000 FOX RIVER AT ALGONQUIN, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DT 06.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
04...	1000	17002	17002	478	672	7.3	19.0	22	9.9	33	64
NOV											
21...	0930	17002	17002	974	612	7.8	7.0	11	13.2	29	100
JAN											
17...	1100	17002	17002	722	757	7.4	.0	1.0	10.2	11	36
FEB											
07...	1200	17002	17002	564	807	--	.0	1.0	--	10	50
MAR											
20...	1000	17002	17002	1420	727	8.1	2.5	2.0	12.7	16	52
APR											
25...	1100	17002	17002	2260	637	8.3	9.0	15	13.6	32	54
JUN											
07...	1300	17002	17002	1480	716	7.8	26.5	20	13.5	41	1400
JUL											
16...	1030	17002	17002	974	565	7.8	26.5	24	7.6	49	<100
AUG											
23...	1015	17002	17002	320	636	7.3	22.5	32	10.6	55	36

DATE	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT											
04...	290	51	48	41	41	29	30	3.1	3.0	46	50
NOV											
21...	330	68	63	43	42	31	30	3.2	3.0	47	45
JAN											
17...	400	87	85	47	45	30	30	3.4	3.3	59	56
FEB											
07...	--	88	--	47	--	34	--	3.0	--	60	63
MAR											
20...	--	70	--	38	--	39	--	2.9	--	47	53
APR											
25...	320	69	67	37	37	20	21	2.7	2.5	53	45
JUN											
07...	310	70	66	36	35	30	30	3.3	3.1	45	49
JUL											
16...	270	55	49	37	36	28	27	2.9	2.5	44	43
AUG											
23...	280	52	46	40	39	34	34	3.4	3.2	42	53

05550000 FOX RIVER AT ALGONQUIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
OCT 04...	33	13	.300	.030	<.001	.80	.83	1.1	.130	.010	280
NOV 21...	32	15	.900	.030	<.001	1.5	1.5	2.4	.100	.010	170
JAN 17...	1	1	2.60	.750	.002	.75	1.5	4.1	.080	.070	77
FEB 07...	3	2	2.50	.760	--	.64	1.4	3.9	.110	.090	79
MAR 20...	6	1	2.20	.150	.002	.69	.84	3.0	.100	.050	<50
APR 25...	23	8	1.60	.040	.001	1.6	1.6	3.2	.100	.020	150
JUN 07...	46	17	1.40	.210	.009	1.9	2.1	3.5	.150	.040	690
JUL 16...	55	22	.100	.040	.002	2.6	2.6	2.7	.180	.020	350
AUG 23...	60	27	.200	.080	<.001	2.8	2.9	3.1	.200	.040	310

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT 04...	160	61	57	<1	<.5	63	65	<3	<3	<5	<5
NOV 21...	86	56	52	<1	<1	62	62	<3	<3	<5	<5
JAN 17...	60	77	74	<1	<2	65	60	<3	<3	<5	<5
FEB 07...	--	83	--	<1	--	61	--	<3	--	<5	--
MAR 20...	--	61	--	<1	--	74	--	4	--	<5	--
APR 25...	<50	42	38	<1	<.5	<50	51	<3	<3	<5	<5
JUN 07...	<50	88	74	<1	<1	75	67	<3	<3	<5	<5
JUL 16...	<50	63	53	<1	<.5	63	59	<3	<3	<5	<5
AUG 23...	<50	74	62	<1	<1	79	75	<3	<3	<5	<5

05550000 FOX RIVER AT ALGONQUIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 04...	<5	<5	<5	<5	340	<50	<50	<50	50	<5	<5
NOV 21...	<5	<5	<5	<5	360	<50	<50	<50	37	7	<5
JAN 17...	<5	<5	<5	<5	65	<50	<50	<50	28	23	9
FEB 07...	<5	--	<5	--	140	--	<50	--	32	--	<5
MAR 20...	<5	--	<5	--	<50	--	<50	--	19	--	<5
APR 25...	<5	<5	<5	<5	340	<50	<50	<50	44	7	<5
JUN 07...	<5	<5	7	<5	930	<50	<50	<50	87	8	<5
JUL 16...	<5	<5	<5	<5	590	<50	<50	<50	71	<5	10
AUG 23...	<5	<5	5	<5	580	<50	<50	<50	92	<5	5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 04...	7	<3	<3	460	450	<5	<5	--	--	0
NOV 21...	<5	<3	<3	760	730	<5	<5	130	<100	0
JAN 17...	9	<3	<3	670	650	<5	<5	<50	<50	0
FEB 07...	--	<3	--	740	--	<5	--	<50	--	0
MAR 20...	--	<3	--	440	--	<5	--	<50	--	2
APR 25...	<5	<3	<3	420	420	<5	<5	<50	<50	0
JUN 07...	<5	<3	<3	400	390	<5	<5	<50	<50	1
JUL 16...	<5	<3	<3	470	440	<5	<5	<50	<50	1
AUG 23...	<5	<3	<3	510	490	<5	<5	<50	<50	0

05550500 POPLAR CREEK AT ELGIN, IL

LOCATION.--Lat 42°01'35", long 88°15'20", in SE¼NW¼ sec.19, T.41 N., R.9 E., Cook County, Hydrologic Unit 07120006, on right bank 35 ft upstream from bridge on U.S. Highway B.R. 20 (Villa Street) in Elgin, and at mile 2.3.

DRAINAGE AREA.--35.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1338: 1952-53. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 716.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--33 years, 24.3 ft³/s, 9.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 896 ft³/s Apr. 22, 1973, gage height, 5.45 ft; maximum gage height, 5.67 ft Dec. 3, 1982; no flow for part of July 10, 1957, Sept. 14, 1958.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 230 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	1315	285	3.23	Feb. 13	1030	*394	*3.86

Minimum daily discharge, 0.90 ft³/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	33	116	10	5.2	23	34	103	55	7.6	1.2	1.6
2	4.0	48	82	10	5.2	22	32	69	43	5.6	.91	1.7
3	3.0	51	63	10	6.2	20	33	52	36	4.8	1.1	1.4
4	2.7	44	52	11	6.6	19	43	44	28	4.6	1.0	1.8
5	2.5	35	46	11	6.2	16	46	36	22	4.5	10	1.3
6	1.7	31	46	10	5.9	16	40	29	19	3.8	15	2.0
7	1.2	27	42	9.5	5.5	14	33	24	19	3.4	10	1.6
8	.99	19	37	9.0	4.7	13	29	21	19	2.7	8.7	4.3
9	1.1	20	33	8.7	4.7	11	27	19	18	2.7	29	6.6
10	.90	20	32	8.3	5.5	11	24	17	16	3.5	91	4.3
11	1.2	21	68	8.0	9.9	9.4	22	27	12	23	82	4.0
12	9.4	18	193	7.7	108	8.5	32	41	10	21	46	3.4
13	13	16	174	7.5	364	9.0	76	42	9.3	13	30	6.3
14	9.9	16	153	7.2	301	8.8	68	42	8.5	7.4	21	11
15	6.9	14	155	7.0	210	23	62	33	7.4	4.4	14	11
16	4.9	14	120	6.9	146	102	65	21	6.0	2.8	9.9	8.8
17	3.5	14	87	6.7	105	82	70	19	5.4	2.3	11	6.8
18	2.7	13	68	6.4	87	65	64	17	8.2	1.9	9.9	4.6
19	2.3	20	55	6.0	112	53	54	23	7.1	1.7	6.5	3.2
20	2.5	45	41	5.2	99	99	45	27	4.9	5.0	4.8	2.6
21	3.0	55	35	4.6	80	126	38	25	4.8	17	3.7	2.2
22	101	46	29	4.3	65	128	82	48	9.8	18	3.3	3.0
23	158	128	25	4.3	55	109	129	76	18	11	2.4	11
24	183	159	21	4.9	48	120	108	56	44	5.3	2.0	8.8
25	148	126	17	5.5	42	118	80	126	33	3.3	1.6	21
26	108	88	15	6.6	36	96	60	149	24	3.4	1.5	30
27	76	93	13	6.9	31	79	49	108	22	3.7	1.3	19
28	55	260	12	6.2	27	66	48	106	18	2.9	1.3	13
29	40	237	11	6.2	21	55	44	125	13	2.0	1.4	8.7
30	32	172	11	5.9	---	46	128	104	10	1.5	1.5	5.3
31	27	---	10	5.5	---	39	---	75	---	1.1	1.3	---
TOTAL	1011.29	1883	1862	227.0	2002.6	1608.7	1665	1704	550.4	194.9	424.31	210.3
MEAN	32.6	62.8	60.1	7.32	69.1	51.9	55.5	55.0	18.3	6.29	13.7	7.01
MAX	183	260	193	11	364	128	129	149	55	23	91	30
MIN	.90	13	10	4.3	4.7	8.5	22	17	4.8	1.1	.91	1.3
CFSM	.93	1.78	1.71	.21	1.96	1.47	1.58	1.56	.52	.18	.39	.20
IN.	1.07	1.99	1.97	.24	2.12	1.70	1.76	1.80	.58	.21	.45	.22

CAL YR 1983 TOTAL 15377.86 MEAN 42.1 MAX 610 MIN .90 CFSM 1.20 IN. 16.25
WTR YR 1984 TOTAL 13343.50 MEAN 36.5 MAX 364 MIN .90 CFSM 1.04 IN. 14.10

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05550500 POPLAR CREEK AT ELGIN, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
NOV											
08...	1500	81700	17002	22	708	8.9	11.0	10.7	20	120	70
DEC											
21...	1600	81700	17002	36	811	7.5	.0	13.9	36	30	79
FEB											
07...	1400	81700	17002	5.5	1850	7.7	1.0	14.9	10	<3	110
MAR											
20...	1530	81700	17002	104	974	7.5	1.5	13.0	24	740	58
MAY											
02...	1400	81700	17002	69	723	9.5	10.5	10.2	20	240	82
JUN											
13...	1400	81700	17002	9.4	853	7.7	24.5	8.3	21	1200	80
AUG											
01...	1545	81700	17002	1.1	900	7.8	21.5	9.4	87	230	83
28...	1415	81700	17002	1.2	934	7.6	21.0	8.3	11	410	86

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV											
08...	33	31	3.6	72	46	4	1	1.2	.040	.005	.72
DEC											
21...	37	48	3.3	84	79	7	3	1.8	.130	<.001	.87
FEB											
07...	52	210	4.7	96	370	18	1	1.4	.100	<.001	.62
MAR											
20...	27	120	3.3	57	200	21	2	1.4	.140	<.001	.51
MAY											
02...	40	49	2.6	68	72	25	10	1.2	.050	.020	.82
JUN											
13...	39	58	3.5	63	77	30	7	1.1	.040	.001	1.1
AUG											
01...	46	59	4.0	60	80	13	4	2.6	.140	.004	.57
28...	46	72	4.6	59	79	4	3	2.7	.020	<.001	.58

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05550500 POPLAR CREEK AT ELGIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
NOV 08...	.76	2.0	.040	.070	210	46	<1	64	<3	<5	<5
DEC 21...	1.0	2.8	.150	.040	280	48	<1	<50	<3	15	<5
FEB 07...	.72	2.1	.020	.020	110	84	<1	56	<3	<5	<5
MAR 20...	.65	2.1	.070	.040	260	33	<1	<50	<3	<5	<5
MAY 02...	.87	2.1	.010	.020	800	42	<1	57	<3	<5	<5
JUN 13...	1.1	2.2	.110	.080	840	65	<1	85	<3	<5	<5
AUG 01...	.71	3.3	.170	.060	330	71	<1	120	<3	11	<5
28...	.60	3.3	.050	.080	330	73	<1	150	<3	<5	<5

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	VANADIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)
NOV 08...	<5	470	<50	22	<5	<3	150	<5	<100	1
DEC 21...	<5	550	<50	34	12	<3	150	<5	<50	1
FEB 07...	<5	230	<50	62	<5	<3	250	<5	<50	1
MAR 20...	<5	420	<50	34	<5	<3	130	<5	<50	1
MAY 02...	<5	1100	<50	40	<5	<3	130	<5	170	1
JUN 13...	<5	1100	<50	92	<5	<3	200	<5	<100	0
AUG 01...	<5	390	<100	55	11	<3	240	<5	<100	1
28...	<5	160	<50	33	<5	<3	260	<5	<50	0

05551000 FOX RIVER AT SOUTH ELGIN, IL

LOCATION.--Lat 41°59'40", long 88°17'40", in NW1/4 sec.35, T.41 N., R.8 E., Kane County, Hydrologic Unit 07120007, at bridge on State Street, 0.6 mi west of South Elgin, 1.3 mi upstream from Brewster Creek, 1.5 mi downstream from Poplar Creek, and at mile 67.2.

DRAINAGE AREA.--1,556 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1960, 1964-67, 1969-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DT 09.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 04...	1200	17002	17002	E520	692	7.5	19.0	21	9.0	36	200
NOV 21...	1130	17002	17002	E1100	629	7.6	7.5	9.0	9.9	29	2200
JAN 17...	1230	17002	17002	759	791	7.5	.0	1.0	14.0	15	<10
FEB 07...	0930	17002	17002	592	879	7.6	.0	2.0	17.3	42	780
MAR 20...	1200	17002	17002	E1800	801	7.9	2.0	2.0	12.4	19	910
APR 25...	1230	17002	17002	2660	651	8.3	10.0	12	13.1	36	120
JUN 07...	1100	17002	17002	E1800	763	8.1	23.5	12	13.4	38	54
JUL 16...	1230	17002	17002	1000	623	7.2	27.5	18	8.8	49	91
AUG 23...	1230	17002	17002	370	682	7.5	23.0	25	11.5	48	310

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT 04...	290	51	48	40	41	32	32	3.3	3.3	44	54
NOV 21...	--	69	--	43	--	36	--	3.5	--	51	51
JAN 17...	400	87	86	47	46	41	41	4.0	4.0	66	71
FEB 07...	--	87	--	46	--	45	--	3.5	--	62	83
MAR 20...	330	68	71	32	38	120	39	4.3	3.0	47	74
APR 25...	320	68	67	37	37	24	24	3.7	3.6	58	50
JUN 07...	310	68	65	36	36	25	25	2.8	2.6	46	42
JUL 16...	280	55	51	37	37	34	33	3.2	2.9	48	51
AUG 23...	320	61	57	42	42	57	54	4.6	4.3	52	84

E Estimated.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
OCT 04...	31	14	9.8	.100	.001	.80	.90	11	.140	.040	290
NOV 21...	29	11	1.2	.090	<.001	1.4	1.5	2.7	.160	.010	200
JAN 17...	1	1	2.5	.970	.003	.73	1.7	4.2	.190	.200	88
FEB 07...	2	1	2.6	.960	.003	.74	1.7	4.3	.170	--	74
MAR 20...	12	4	2.3	.180	.001	.60	.78	3.1	.140	.090	650
APR 25...	27	8	1.7	.040	.002	1.6	1.6	3.3	.200	.200	190
JUN 07...	30	15	1.1	.020	.001	1.7	1.8	2.9	.110	.040	300
JUL 16...	47	20	.30	.060	<.001	2.7	2.8	3.1	.220	.060	370
AUG 23...	52	22	1.0	.160	.003	2.8	3.0	4.0	.370	.220	420

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT 04...	140	100	110	<1	<.5	74	74	<3	<3	<5	<5
NOV 21...*	--	92	--	<1	--	71	--	<3	--	<5	--
JAN 17...	59	99	96	<2	<2	89	85	<3	<3	<5	<5
FEB 07...	--	100	--	<1	--	85	--	<3	--	<5	--
MAR 20...	120	63	65	<1	<1	140	75	<3	<3	<5	<5
APR 25...	<50	57	51	<1	<.5	110	110	<3	<3	<5	<5
JUN 07...	<50	60	54	<1	<.5	66	63	<3	<3	<5	<5
JUL 16...	<50	94	80	<1	<.5	77	75	<3	<3	<5	<5
AUG 23...	<50	100	120	<2	<.5	130	120	<3	<3	<5	<5

05551000 FOX RIVER AT SOUTH ELGIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 04...	<5	<5	<5	<5	390	<50	<50	<100	59	6	7
NOV 21...	<5	--	<5	--	440	--	<50	--	40	--	<5
JAN 17...	<5	<5	<5	<5	71	<50	<50	<50	30	25	11
FEB 07...	<5	--	<5	--	170	--	<50	--	31	--	6
MAR 20...	<5	<5	19	<5	1100	270	<50	<50	74	31	<5
APR 25...	<5	<5	<5	<5	380	<50	<50	<50	48	6	<5
JUN 07...	<5	<5	5	<5	480	56	<50	<50	58	7	<5
JUL 16...	<5	<5	<5	<5	600	<50	<50	<50	79	<5	7
AUG 23...	<5	<5	7	5	680	<50	<50	<50	91	8	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 04...	10	<3	<3	450	440	<5	<5	<100	<50	0
NOV 21...	--	<3	--	650	--	<5	--	<50	--	0
JAN 17...	14	<3	3	630	620	<5	<5	<100	<100	0
FEB 07...	--	<3	--	710	--	<5	--	<50	--	0
MAR 20...	<5	<3	<3	300	440	<5	<5	<50	<50	2
APR 25...	<5	<3	<3	420	420	<5	<5	<50	<50	0
JUN 07...	<5	<3	<3	450	440	<5	<5	<50	<50	2
JUL 16...	<5	<3	<3	480	470	<5	<5	<50	<50	1
AUG 23...	<5	<3	<3	480	480	<5	<5	230	<50	0

05551200 FERSON CREEK NEAR ST. CHARLES, IL

LOCATION.--Lat 41°56'00", long 88°20'30", in NE¼SE¼ sec.20, T.40 N., R.8 E., Kane County, Hydrologic Unit 07120007, on right bank at upstream side of bridge on Randall Road, 2.4 mi northwest of St. Charles, and at mile 2.2.

DRAINAGE AREA.--51.7 mi^2.

PERIOD OF RECORD.--December 1960 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-82-2: 1966(M), 1968(M), 1970-71(M), 1973(M), 1978-79(M).

GAGE.--Water-stage recorder. Datum of gage is 704.84 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--23 years (water years 1962-84), 40.7 ft^3/s, 10.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,970 ft^3/s Feb. 20, 1971, gage height, 7.64 ft; maximum gage height, 9.66 ft Feb. 8, 1965, from floodmark (ice jam); minimum discharge, 0.1 ft^3/s on several days in 1961, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft^3/s Feb. 13, gage height, 6.25 ft; maximum gage height, 6.50 ft Feb. 13 (ice jam); minimum discharge, 3.5 ft^3/s Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	21	74	35	15	46	58	126	64	18	8.2	5.4
2	9.5	37	61	34	15	44	54	90	56	17	7.7	6.0
3	9.5	37	53	33	15	41	53	74	47	15	7.6	5.9
4	10	30	50	32	15	39	68	76	44	16	7.5	5.2
5	10	26	48	30	16	38	70	68	40	15	7.4	4.7
6	9.5	23	52	28	18	36	59	61	52	15	7.2	4.8
7	8.7	22	45	27	17	34	52	53	82	13	6.4	5.4
8	8.2	20	41	25	17	32	47	48	53	12	6.8	5.0
9	8.7	19	39	25	16	31	46	44	45	13	35	6.3
10	8.7	20	36	25	15	30	44	43	40	12	181	6.2
11	9.2	24	81	30	17	28	42	43	33	35	47	5.7
12	15	22	219	24	200	27	48	40	30	22	27	5.2
13	16	20	138	22	890	26	64	37	37	17	19	7.8
14	13	19	123	21	369	26	54	39	40	14	15	12
15	12	19	115	20	197	44	53	34	30	13	13	9.0
16	11	19	80	21	140	131	56	32	29	12	12	7.8
17	10	18	70	21	120	72	58	30	28	10	12	6.7
18	9.5	17	64	22	140	57	53	30	28	9.4	13	5.9
19	9.4	21	59	23	183	53	48	29	25	8.5	11	5.8
20	9.7	47	57	23	134	123	45	35	23	11	9.9	5.4
21	11	58	53	22	109	138	42	36	22	61	8.9	5.0
22	59	40	50	21	94	126	87	62	33	22	8.7	4.9
23	85	114	47	20	84	118	115	85	70	16	7.9	9.1
24	47	120	44	19	74	165	65	57	40	14	7.5	11
25	33	71	42	19	66	138	70	166	30	12	6.7	27
26	27	54	40	20	59	108	62	163	25	13	6.4	30
27	23	72	39	19	54	99	56	96	25	15	6.6	17
28	21	281	39	18	50	91	53	140	22	12	6.1	12
29	19	165	38	17	51	78	50	161	21	11	6.1	10
30	18	103	37	16	---	71	221	106	20	9.3	5.7	9.8
31	17	---	36	15	---	63	---	79	---	8.5	5.1	---
TOTAL	567.5	1559	1970	727	3190	2153	1913	2183	1134	491.7	529.4	262.0
MEAN	18.3	52.0	63.5	23.5	110	69.5	63.8	70.4	37.8	15.9	17.1	8.73
MAX	85	281	219	35	890	165	221	166	82	61	181	30
MIN	8.2	17	36	15	15	26	42	29	20	8.5	5.1	4.7
CFSM	.35	1.01	1.23	.45	2.13	1.34	1.23	1.36	.73	.31	.33	.17
IN.	.41	1.12	1.42	.52	2.30	1.55	1.38	1.57	.82	.35	.38	.19

CAL YR 1983 TOTAL 21338.9 MEAN 58.5 MAX 934 MIN 5.4 CFSM 1.13 IN. 15.35
WTR YR 1984 TOTAL 16679.6 MEAN 45.6 MAX 890 MIN 4.7 CFSM .88 IN. 12.00

05551540 FOX RIVER AT MONTGOMERY, IL

LOCATION.--Lat 41°43'46", long 88°20'19", in SW¼ sec.33, T.38 N., R.8 E., Kane County, Hydrologic Unit 07120007, at bridge on Mill Street, 0.2 mi east of Montgomery, 1.1 mi upstream from small right-bank tributary, 3.2 mi upstream from Waubansee Creek, and at mile 45.9.

DRAINAGE AREA.--1,732 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1964, 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DT 38.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (0040C)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 25...	1130	17002	17002	1860	656	7.8	11.0	8.0	10.8	36	3000
DEC 02...	0900	17002	17002	2620	678	8.0	.0	16	14.6	24	390
JAN 24...	1100	17002	17002	E750	903	7.8	.0	2.0	14.6	15	580
FEB 15...	1100	17002	17002	3570	609	7.4	1.0	30	13.5	27	3700
APR 05...	1100	17002	17002	2280	681	8.0	7.0	3.0	13.0	26	670
MAY 07...	0900	17002	17002	2420	674	8.0	14.0	26	10.1	44	--
JUN 13...	0830	17002	17002	1850	696	7.7	24.0	16	7.5	35	360
AUG 01...	1130	17002	17002	E370	700	8.2	25.0	20	8.3	44	440
SEP 18...	1100	17002	17002	E300	757	8.1	17.0	29	9.2	62	580

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 25...	300	96	.00	62	57	39	39	34	30	3.5	3.0
DEC 02...	330	96	.00	71	70	38	38	30	30	3.2	3.1
JAN 24...	430	120	.00	92	91	48	48	45	46	4.3	4.3
FEB 15...	260	69	.00	63	58	30	29	33	33	3.4	3.2
APR 05...	310	92	.00	69	67	36	35	30	30	3.4	3.2
MAY 07...	390	160	.00	88	84	45	44	29	28	2.8	2.5
JUN 13...	310	75	.00	72	65	38	36	33	32	3.2	2.9
AUG 01...	300	71	.00	60	55	41	39	46	46	4.2	4.0
SEP 18...	280	57	.00	58	53	37	36	55	54	5.6	5.2

E Estimated.

BEST COPY AVAILABLE

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 25...	208	45	53	.2	56	20	1.0	.130	.002	1.8	1.9
DEC 02...	236	57	49	.3	21	9	2.2	.140	.001	1.2	1.3
JAN 24...	304	64	78	.3	5	1	2.7	.890	.005	.71	1.6
FEB 15...	196	43	59	.2	61	13	3.1	.500	.001	1.4	1.9
APR 05...	220	52	56	.2	25	10	2.1	.080	.001	1.2	1.3
MAY 07...	230	54	53	.2	71	15	1.8	.030	<.001	2.0	2.0
JUN 13...	236	51	51	.3	49	17	1.3	.150	.004	1.8	1.9
AUG 01...	228	54	70	.3	58	28	.20	.030	.003	2.5	2.6
SEP 18...	224	51	78	.3	73	22	.70	.210	.009	3.8	4.0

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 25...	2.9	.200	.060	3700	78	1	100	81	<1	<.5
DEC 02...	3.5	.160	.060	380	68	1	63	58	2	<2
JAN 24...	4.3	.210	.240	99	<50	2	100	100	<2	<2
FEB 15...	5.0	.240	.150	1200	56	<1	82	60	<1	<1
APR 05...	3.4	.130	.000	180	<50	2	60	54	<1	<.5
MAY 07...	3.8	.190	.010	530	<50	2	73	57	<1	<.5
JUN 13...	3.2	.190	.110	730	<50	4	97	79	<1	<2
AUG 01...	2.8	.260	.070	480	<50	4	100	95	<1	<.5
SEP 18...	4.7	.330	.110	<100	<100	3	63	55	<1	<.5

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT 25...	95	76	<3	<3	<5	<5	<5	<5	7	<5
DEC 02...	60	61	<3	<3	<5	<5	<5	<5	<5	<5
JAN 24...	110	110	<3	<3	<5	<5	<5	<5	<5	<5
FEB 15...	51	<50	<3	<3	5	<5	5	<5	8	<5
APR 05...	59	57	<3	<3	<5	<5	<5	<5	<5	<5
MAY 07...	60	55	<3	<3	<5	<5	<5	<5	<5	<5
JUN 13...	80	73	<3	<3	<5	<5	<5	<5	5	<5
AUG 01...	110	110	<3	<3	<5	<5	<5	<5	<5	<5
SEP 18...	110	110	<3	<3	<10	<5	<10	<5	6	<5

05551540 FOX RIVER AT MONTGOMERY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 25...	1100	<50	<100	<50	71	<5	<.1	12	13	<3
DEC 02...	490	<50	<50	<50	12	<5	<.1	<5	<5	<3
JAN 24...	79	<50	<50	<50	18	12	<.1	<5	10	<3
FEB 15...	1700	<50	<50	<50	83	19	<.1	9	<5	<3
APR 05...	410	<50	<50	<50	52	7	<.1	<5	<5	<3
MAY 07...	1100	54	--	<50	94	<5	<.1	<5	<5	<3
JUN 13...	950	<50	<50	<50	84	<5	<.1	9	<5	<3
AUG 01...	730	<50	<50	<100	120	6	<.1	5	<5	<3
SEP 18...	1100	<50	<100	<50	92	7	<.1	<10	<10	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 25...	<3	520	500	<5	<5	<50	<50	.00	<1	0
DEC 02...	<3	520	520	<5	<5	<50	<50	.00	<1	1
JAN 24...	<3	670	670	<5	<5	<100	<100	.00	<1	0
FEB 15...	<3	330	320	<5	<5	<100	<50	.00	<1	0
APR 05...	<3	340	340	<5	<5	<50	<50	.00	<1	1
MAY 07...	<3	410	390	<5	<5	<100	110	.00	2	1
JUN 13...	<3	460	420	<5	<5	<50	<50	.00	<1	2
AUG 01...	<3	530	500	<5	<5	<50	<50	.00	2	0
SEP 18...	<3	200	190	<5	<5	<50	<50	.00	2	1

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05551700 BLACKBERRY CREEK NEAR YORKVILLE, IL

LOCATION.--Lat 41°40'18", long 88°26'29", in SE¼NW¼ sec.21, T.37 N., R.7 E., Kendall County, Hydrologic Unit 07120007, on right bank 300 ft upstream from bridge on State Highway 47, 2.0 mi north of Yorkville and at mile 3.3.

DRAINAGE AREA.--70.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 612.34 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--24 years, 52.5 ft^3/s, 10.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft^3/s July 3, 1983, gage height, 9.91 ft; minimum, 0.1 ft^3/s Dec. 7, 1962, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 240 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	2000	268	4.88	May 29	0415	262	4.84
Feb. 14	0945	*765	*7.08	June 22	0915	275	4.92
May 26	1530	300	5.06				

Minimum discharge, 6.0 ft^3/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	27	116	42	30	70	74	178	120	44	16	10
2	22	34	92	43	27	66	69	121	99	41	15	10
3	20	33	79	43	28	66	70	99	82	40	15	9.1
4	22	29	73	41	29	65	81	92	73	40	15	9.1
5	20	27	71	39	27	62	87	80	68	37	15	10
6	20	25	75	37	25	59	78	94	64	36	16	9.2
7	19	24	71	35	31	55	82	90	70	33	15	9.0
8	19	25	64	34	27	53	81	77	68	31	15	8.9
9	18	23	60	33	27	50	75	68	60	30	14	11
10	18	23	57	31	26	50	68	62	86	30	15	10
11	20	26	73	28	34	46	59	59	70	33	14	10
12	27	28	187	30	102	45	64	53	59	32	13	9.7
13	31	24	184	30	427	47	77	52	57	27	13	10
14	25	22	157	30	729	44	71	50	120	26	12	17
15	23	24	150	30	498	53	67	46	80	25	12	12
16	21	22	124	28	272	128	67	45	66	22	12	10
17	20	22	106	31	209	104	66	44	60	21	13	10
18	20	20	82	29	184	81	62	43	51	20	13	9.7
19	19	23	72	29	224	76	59	42	45	19	13	9.5
20	22	31	76	29	209	138	55	46	41	19	12	9.0
21	27	48	72	30	171	180	52	45	50	23	11	8.6
22	60	39	65	30	146	160	120	56	219	24	11	8.5
23	103	87	60	32	129	141	192	153	147	20	10	13
24	71	146	54	31	114	146	141	111	111	19	11	13
25	53	93	54	30	103	136	115	129	83	19	9.9	33
26	45	73	52	30	93	121	97	285	67	20	9.6	61
27	39	76	50	29	85	112	88	196	61	21	9.5	27
28	35	218	49	29	80	104	82	186	54	19	10	19
29	32	243	47	30	73	115	76	249	50	17	9.2	16
30	29	163	46	28	---	100	151	187	47	16	8.7	14
31	28	---	45	26	---	86	---	143	---	16	7.8	---
TOTAL	950	1698	2563	997	4159	2761	2526	3181	2328	820	385.7	416.3
MEAN	30.6	56.6	82.7	32.2	143	89.1	84.2	103	77.6	26.5	12.4	13.9
MAX	103	243	187	43	729	180	192	285	219	44	16	61
MIN	18	20	45	26	25	44	52	42	41	16	7.8	8.5
CFSM	.44	.81	1.18	.46	2.04	1.27	1.20	1.47	1.11	.38	.18	.20
IN.	.50	.90	1.36	.53	2.20	1.46	1.34	1.69	1.23	.43	.20	.22

CAL YR 1983	TOTAL	31598	MEAN	86.6	MAX	1620	MIN	14	CFSM	1.23	IN.	16.74
WTR YR 1984	TOTAL	22785.0	MEAN	62.3	MAX	729	MIN	7.8	CFSM	.89	IN.	12.07

05551700 BLACKBERRY CREEK NEAR YORKVILLE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 13...	1230	17002	17002	32	729	6.8	11.0	3.0	8.7	4	310
DEC 02...	1100	17002	17002	92	639	7.5	2.0	11	12.7	15	510
JAN 24...	0930	17002	17002	E31	791	7.3	.0	2.0	11.3	2	3700
FEB 23...	1300	17002	17002	127	657	7.6	7.0	12	11.4	15	300
APR 05...	0900	17002	17002	87	773	7.7	5.0	1.0	13.4	12	210
MAY 07...	1130	17002	17002	90	696	7.6	15.0	12	9.9	23	--
JUN 13...	1030	17002	17002	53	749	7.6	23.0	74	7.4	38	630
AUG 01...	0830	17002	17002	16	733	7.0	22.5	32	6.9	14	280
SEP 18...	0900	17002	17002	8.7	781	7.8	14.0	26	8.4	10	710

DATE	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)
OCT 13...	--	90	--	46	--	18	--	2.6	--	18	3
DEC 02...	--	92	--	41	--	13	--	2.1	--	24	8
JAN 24...	--	100	--	48	--	14	--	2.3	--	2	2
FEB 23...	340	81	78	36	35	16	15	2.2	2.1	30	1
APR 05...	--	88	--	41	--	23	--	2.2	--	6	3
MAY 07...	420	94	91	47	46	15	15	2.1	1.9	42	5
JUN 13...	--	91	--	42	--	17	--	2.7	--	150	31
AUG 01...	370	79	74	48	46	20	20	2.7	2.5	48	14
SEP 18...	410	88	87	47	46	23	23	2.9	2.9	36	4

E Estimated.

05551700 BLACKBERRY CREEK NEAR YORKVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)
OCT 13...	1.3	.010	<.001	.72	.73	2.0	.050	.020	290	--
DEC 02...	5.3	.060	<.001	.75	.81	6.1	.110	.080	470	--
JAN 24...	3.0	.090	<.001	.43	.52	3.5	.040	.030	67	--
FEB 23...	5.7	.050	<.001	.67	.72	6.4	.100	.030	530	99
APR 05...	3.7	.010	<.001	.33	.34	4.0	.030	.000	61	--
MAY 07...	3.0	.020	<.001	1.3	1.3	4.3	.120	.010	580	<50
JUN 13...	3.9	.060	.001	1.9	1.9	5.8	.260	.080	3500	--
AUG 01...	1.3	.050	<.001	.79	.84	2.1	.090	.040	950	<50
SEP 18...	1.2	.120	.002	.78	.90	2.1	.100	.040	590	<50

DATE	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
OCT 13...	68	--	<1	--	<50	--	<3	--	<5	--
DEC 02...	69	--	2	--	<50	--	<3	--	<5	--
JAN 24...	64	--	<1	--	<50	--	<3	--	<5	--
FEB 23...	69	58	<1	<1	<50	<50	<3	<3	<5	<5
APR 05...	59	--	<1	--	<50	--	<3	--	<5	--
MAY 07...	77	64	<1	<.5	<50	<50	<3	<3	<5	<5
JUN 13...	100	--	<2	--	72	--	4	--	<5	--
AUG 01...	93	78	<1	<.5	58	54	4	<3	7	9
SEP 18...	91	82	<1	<.5	54	52	<3	<3	<5	<5

05551700 BLACKBERRY CREEK NEAR YORKVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT										
13...	<5	--	<5	--	490	--	<50	--	58	--
DEC										
02...	<5	--	<5	--	930	--	<50	--	55	--
JAN										
24...	<5	--	<5	--	110	--	<50	--	48	--
FEB										
23...	<5	<5	<5	<5	1200	<50	<50	<50	91	28
APR										
05...	<5	--	<5	--	300	--	<50	--	60	--
MAY										
07...	<5	<5	<5	<5	1400	60	<50	<50	150	53
JUN										
13...	<5	--	6	--	5100	--	<50	--	240	--
AUG										
01...	<5	7	31	<5	1500	<50	<50	<50	130	52
SEP										
18...	<5	<5	<5	<5	1000	<50	<50	<50	100	32

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
13...	<5	--	<3	--	160	--	<5	--	130	--
DEC										
02...	<5	--	<3	--	150	--	<5	--	<50	--
JAN										
24...	<5	--	<3	--	170	--	<5	--	<100	--
FEB										
23...	<5	<5	<3	<3	130	120	<5	<5	<50	<100
APR										
05...	<5	--	<3	--	140	--	<5	--	<50	--
MAY										
07...	<5	<5	<3	<3	150	140	<5	<5	<50	<50
JUN										
13...	8	--	<3	--	180	--	<5	--	100	--
AUG										
01...	11	12	<3	<3	170	170	<5	<5	<100	<50
SEP										
18...	<5	<5	<3	<3	180	180	<5	<5	<50	<50

05551995 SOMONAUK CREEK AT SHERIDAN, IL

LOCATION.--Lat 41°32'37", long 88°41'12", in NW¼NW¼ sec.5, T.35 N., R.5 E., La Salle County, Hydrologic Unit 07120007, at bridge on county road, 1.0 mi north of Sheridan, 8.5 mi downstream from Lake Holiday Dam, and at mile 0.4.

DRAINAGE AREA.--83.3 mi^2.

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1968-69, 1971-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DTB 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
07...	1200	17002	17002	582	7.7	13.0	1.0	10.9	10	270	--
NOV											
10...	1230	17002	17002	680	7.5	10.0	--	10.3	6	260	--
JAN											
18...	1230	17002	17002	681	8.6	.0	1.0	15.1	5	<10	--
FEB											
14...	1200	17002	17002	417	7.2	2.0	56	12.1	35	910	210
MAR											
29...	1200	17002	17002	--	--	7.0	5.0	--	7	<10	310
MAY											
03...	1000	17002	17002	613	7.6	11.0	10	10.6	10	150	--
JUL											
02...	1130	17002	17002	603	8.1	22.0	3.0	11.1	14	360	320
AUG											
13...	1000	17002	17002	632	7.7	19.0	1.0	11.9	3	200	--
SEP											
24...	1130	17002	17002	673	7.7	20.5	3.0	7.6	1	580	370

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)
OCT										
07...	78	--	43	--	8.3	--	2.0	--	13	7
NOV										
10...	89	--	44	--	8.3	--	2.1	--	9	5
JAN										
18...	92	--	45	--	8.9	--	2.2	--	2	2
FEB										
14...	55	48	26	23	7.0	6.9	3.3	2.9	110	15
MAR										
29...	73	70	35	34	8.3	7.5	2.5	1.9	16	8
MAY										
03...	87	--	45	--	8.3	--	1.4	--	28	3
JUL										
02...	70	67	37	36	8.3	8.1	2.1	2.0	16	10
AUG										
13...	76	--	42	--	8.9	--	2.0	--	21	7
SEP										
24...	89	82	43	41	7.9	8.2	2.5	2.4	10	2

05551995 SOMONAUK CREEK AT SHERIDAN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 07...	1.0	.000	<.001	.56	.56	1.6	.030	.010	180	--
NOV 10...	1.2	.010	<.001	.33	.34	1.5	.030	.010	160	--
JAN 18...	5.1	.010	<.001	.46	.47	5.6	.030	.010	110	--
FEB 14...	3.9	.340	<.001	1.6	1.9	5.8	.430	.240	2700	70
MAR 29...	7.0	.000	--	.78	.78	7.8	.070	.030	460	62
MAY 03...	7.7	.050	<.001	.68	.73	8.4	.070	.020	340	--
JUL 02...	5.4	.030	.002	.71	.74	6.1	.050	.020	240	<50
AUG 13...	1.5	.040	<.001	.26	.30	1.8	.040	.030	130	--
SEP 24...	1.0	.020	<.001	.48	.50	1.5	.030	.020	130	59

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT 07...	72	--	<1	--	<50	--	<3	--	10	--
NOV 10...	81	--	<1	--	<50	--	<3	--	<5	--
JAN 18...	77	--	<1	--	<50	--	<3	--	<5	--
FEB 14...	76	46	<1	<1	<50	<50	<3	<3	<5	<5
MAR 29...	65	56	<1	<.5	<50	<50	<3	<3	<5	<5
MAY 03...	70	--	<1	--	<50	--	<3	--	<5	--
JUL 02...	82	75	<1	<1	<50	<50	<3	<3	<5	<5
AUG 13...	83	--	<1	--	<50	--	<3	--	<5	--
SEP 24...	100	94	3	3	<50	<50	<3	4	8	<5

05551995 SOMONAUK CREEK AT SHERIDAN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 07...	<5	--	<5	--	320	--	<100	--	46	--
NOV 10...	<5	--	<5	--	420	--	<50	--	60	--
JAN 18...	<5	--	<5	--	140	--	<50	--	33	--
FEB 14...	<5	<5	<5	--	3600	<50	<50	<50	150	40
MAR 29...	<5	<5	<5	<5	720	<50	<50	<50	43	15
MAY 03...	<5	--	<5	--	670	--	<50	--	48	--
JUL 02...	<5	<5	<5	<5	400	<50	<50	<50	32	8
AUG 13...	<5	--	<5	--	230	--	<50	--	39	--
SEP 24...	<5	<5	<5	7	360	63	<50	<50	38	21

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 07...	26	--	3	--	110	--	<5	--	<100	--
NOV 10...	<5	--	<3	--	120	--	<5	--	<50	--
JAN 18...	7	--	<3	--	140	--	<5	--	<50	--
FEB 14...	5	<5	<3	<3	84	78	<5	<5	<50	<50
MAR 29...	<5	<5	<3	<3	100	99	<5	<5	460	<100
MAY 03...	<5	--	<3	--	110	--	<5	--	360	--
JUL 02...	13	<5	<3	<3	120	120	6	<5	<50	<50
AUG 13...	<5	--	<3	--	130	--	<5	--	<50	--
SEP 24...	<5	<5	5	<3	150	150	<5	<5	120	<50

05552500 FOX RIVER AT DAYTON, IL

LOCATION.--Lat 41°23'12", long 88°47'26", in SW¼SE¼ sec.29, T.34 N., R.4 E., La Salle County, Hydrologic Unit 07120007, on right bank at upstream side of county road bridge on property of North Counties Hydro-Electric Co. in Dayton, and at mile 5.3.

DRAINAGE AREA.--2,642 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1914 to current year. Prior to April 1925, published as "at Wedron." Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 730: 1931. WSP 1208: 1930, 1935, 1939. WSP 1308: 1916(M), 1922(M), 1926-31(M), 1934-40(M), 1946-47(M). WDR IL-75-1: Drainage area. WDR IL-76-1: 1969.

GAGE.--Water-stage recorder. Datum of gage is 462.30 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 13, 1925, nonrecording gage at site 4.1 mi upstream at datum 496.80 ft above Memphis datum. Apr. 13, 1925, to Sept. 30, 1942, nonrecording gage at site 500 ft upstream at datum 7.70 ft below NGVD. Apr. 11, 1951, to Sept. 30, 1978, water-stage recorder, and Oct. 1, 1942, to Apr. 10, 1951, nonrecording gage at site 500 ft upstream at same datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--69 years (water years 1916-84), 1,711 ft^3/s, 8.79 in/yr, discharge for site at Wedron adjusted for difference in drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,100 ft^3/s Oct. 11, 1954, gage height, 24.63 ft, from rating curve extended above 15,000 ft^3/s on basis of computation of peak flow over dam; maximum gage height, 36.47 ft Jan. 25, 1960, ice jam; minimum daily discharge, 1.0 ft^3/s Aug. 29, 1934, when turbines were shut down; minimum daily with plant operating, 78 ft^3/s Oct. 29, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 13	--	*18500	[a]*19.80	May 29	1245	7210	10.68
Feb. 19	1015	8190	11.15				

[a] Ice jam.

Minimum daily discharge, 409 ft^3/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	775	1200	3580	1700	970	3600	3550	5220	4740	1590	725	645
2	784	1300	3180	1600	970	3500	3380	4430	4450	1560	707	612
3	669	1400	3010	1560	960	3340	3270	4160	4200	1540	659	525
4	606	1600	2960	1510	890	3200	3410	4290	3840	1480	629	465
5	614	1400	2870	1620	860	3050	3500	4290	3510	1360	656	476
6	679	1340	2830	1630	850	2800	3360	3970	3190	1200	643	458
7	777	1300	2690	1500	870	2620	3180	3810	3440	888	593	483
8	757	1260	2470	1370	880	2470	2910	3290	3100	656	645	481
9	745	1200	2420	1310	890	2240	2810	2940	2900	734	650	470
10	714	1230	2330	1240	910	2040	2710	2790	2880	1160	940	489
11	707	1210	2560	1210	970	1970	2590	2700	2770	1030	1510	410
12	741	1200	4570	1270	1700	1870	2600	2620	2670	1270	976	592
13	904	1180	4570	1240	12000	1750	2960	2510	2500	1440	894	463
14	978	1130	4180	1290	16200	1920	2740	3090	3230	1510	805	554
15	964	1200	4270	1300	13500	2060	2520	2870	2670	1460	728	662
16	925	1240	3820	1270	10000	4000	2430	2540	2150	1290	683	651
17	1000	1230	3360	1210	7250	3620	2460	2160	1860	1280	674	515
18	930	1290	3200	1100	6440	3090	2620	2050	1500	1120	659	409
19	919	1400	3000	1050	7810	2980	2660	1650	1520	1210	652	460
20	817	1480	2900	1000	7010	4500	2700	1740	1540	1120	644	453
21	947	1590	3050	1000	6180	5180	2720	1770	2050	953	574	448
22	1060	1610	2700	1000	5800	4830	4170	1990	3040	1250	637	453
23	1810	2070	2400	950	5400	4640	6210	3560	3290	1040	659	493
24	2060	3230	2200	900	5200	4660	5500	3330	2690	879	652	579
25	2040	2850	2300	910	5100	4700	4880	3710	2420	884	625	619
26	1810	2670	2200	950	4750	4460	4500	5660	2410	1050	610	1170
27	1570	2700	2100	970	4250	4320	4140	4820	2400	1020	585	951
28	1380	4900	2020	960	4000	4300	4030	5170	2150	860	580	946
29	1170	5110	1930	960	3800	4180	3750	6690	1790	865	679	944
30	1150	4140	1830	960	---	3940	5430	5820	1620	810	599	857
31	1090	---	1710	970	---	3710	---	5150	---	714	545	---
TOTAL	32092	56660	89210	37510	136410	105540	103690	110790	82520	35223	21817	17733
MEAN	1035	1889	2878	1210	4704	3405	3456	3574	2751	1136	704	591
MAX	2060	5110	4570	1700	16200	5180	6210	6690	4740	1590	1510	1170
MIN	606	1130	1710	900	850	1750	2430	1650	1500	656	545	409
CFSM	.39	.71	1.09	.46	1.78	1.29	1.31	1.35	1.04	.43	.27	.22
IN.	.45	.80	1.26	.53	1.92	1.49	1.46	1.56	1.16	.50	.31	.25

CAL YR 1983	TOTAL	1003053	MEAN	2748	MAX	20700	MIN	512	CFSM	1.04	IN.	14.12
WTR YR 1984	TOTAL	829195	MEAN	2266	MAX	16200	MIN	409	CFSM	.86	IN.	11.68

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05552500 FOX RIVER AT DAYTON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 07...	1030	17002	17002	792	698	8.3	16.0	5.0	10.5	30	91
NOV 10...	0930	17002	17002	1230	733	7.9	11.0	3.0	10.2	36	750
JAN 18...	0930	17002	17002	E1100	706	6.0	.0	1.0	14.8	15	110
FEB 14...	0930	17002	17002	14900	391	7.5	.0	180	13.9	59	3200
MAR 29...	0930	17002	17002	4190	704	--	7.0	4.0	--	21	27
MAY 03...	0830	17002	17002	4120	669	7.7	12.0	37	10.5	34	250
JUL 02...	0930	17002	17002	1760	723	8.2	22.0	24	8.7	42	91
AUG 13...	1100	17002	17002	905	548	7.9	25.0	27	7.2	32	170
SEP 24...	1000	17002	17002	606	737	8.3	23.0	17	6.0	37	160

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT 07...	330	91	.00	69	63	45	42	48	46	4.5	4.1
NOV 10...	340	93	.00	74	67	44	42	39	39	3.9	3.6
JAN 18...	390	130	.00	86	85	45	44	37	37	3.8	3.8
FEB 14...	170	41	.00	60	38	25	18	20	18	3.9	3.0
MAR 29...	330	110	.00	74	73	37	36	27	27	3.0	3.0
MAY 03...	390	160	.00	88	84	44	43	25	25	2.4	2.0
JUL 02...	320	81	.00	70	67	39	38	34	34	3.5	3.2
AUG 13...	210	37	.00	52	42	29	26	34	31	4.3	3.5
SEP 24...	280	55	.00	62	52	41	37	54	48	5.6	4.8

E Estimated.

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05552500 FOX RIVER AT DAYTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 07...	240	63	68	.4	34	18	1.3	.020	.001	3.7	3.7
NOV 10...	248	58	58	.3	66	20	1.3	.020	<.001	1.8	1.8
JAN 18...	260	69	79	.3	12	6	3.4	.580	<.001	.72	1.3
FEB 14...	128	30	34	.2	300	40	3.8	.410	.001	2.9	3.3
MAR 29...	220	52	52	.2	20	7	4.6	.020	---	.91	.93
MAY 03...	224	57	45	.2	81	18	4.6	.000	<.001	2.0	2.0
JUL 02...	244	55	50	.3	50	16	1.9	.020	.001	2.0	2.0
AUG 13...	176	41	50	.4	57	21	1.2	.030	.001	1.8	1.9
SEP 24...	228	56	75	.4	51	20	.30	.020	.002	3.1	3.1

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
OCT 07...	5.0	.320	.240	190	110	2	94	80	<1	<.5
NOV 10...	3.1	.310	.060	450	<50	8	92	76	<1	<.5
JAN 18...	4.7	.270	.270	120	<50	1	82	79	<1	<1
FEB 14...	7.1	.480	.220	4700	79	2	100	40	<2	<1
MAR 29...	5.5	.110	.040	220	70	1	59	54	<1	<.5
MAY 03...	6.6	.210	.010	860	<50	1	79	59	<1	<.5
JUL 02...	3.9	.200	.100	880	<50	3	95	82	<1	<1
AUG 13...	3.1	.340	.250	860	<50	3	93	68	<1	<1
SEP 24...	3.4	.340	.150	450	<50	2	100	89	<2	<2

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT 07...	150	150	<3	<3	<5	5	<5	<5	<5	<5
NOV 10...	120	110	<3	<3	<5	<5	<5	<5	<5	<5
JAN 18...	96	92	<3	<3	<5	<5	<5	<5	<5	<5
FEB 14...	<50	<50	<3	<3	<5	<5	<5	<5	31	<5
MAR 29...	57	56	<3	<3	<5	<5	<5	<5	<5	<5
MAY 03...	60	66	<3	<3	<5	<5	<5	<5	<5	<5
JUL 02...	95	91	<3	<3	<5	<5	<5	<5	40	26
AUG 13...	120	100	<3	<3	<5	<5	<5	<5	<5	6
SEP 24...	180	160	<3	<3	<5	<5	<5	<5	<5	<5

05552500 FOX RIVER AT DAYTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT 07...	330	<50	<50	<50	56	<5	<.1	19	20	<3
NOV 10...	1000	<50	<50	<50	77	5	<.1	<5	<5	<3
JAN 18...	110	<50	<50	<50	21	6	<.1	8	5	<3
FEB 14...	6900	<50	<100	<50	260	25	<.1	12	<5	<3
MAR 29...	320	<50	<50	<50	26	7	<.1	<5	<5	<3
MAY 03...	1400	73	<50	<50	93	<5	<.1	<5	<5	<3
JUL 02...	1100	<50	<50	<50	77	<5	<.1	<5	<5	<3
AUG 13...	1100	<50	<50	<50	120	9	<.1	7	<5	<3
SEP 24...	680	90	<50	<50	100	8	<.1	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 07...	<3	430	400	<5	<5	110	140	.00	<1	0
NOV 10...	<3	580	570	<5	<5	<100	<100	.00	<1	1
JAN 18...	<3	500	490	<5	<5	<50	<50	.00	<1	0
FEB 14...	<3	160	130	<5	<5	<100	<50	.01	<1	0
MAR 29...	<3	290	290	<5	<5	170	<100	.00	<1	0
MAY 03...	<3	280	260	<5	<5	330	280	.01	<1	0
JUL 02...	<3	420	410	<5	<5	<50	<50	.00	<1	0
AUG 13...	<3	350	310	<5	<5	<50	<50	.00	<1	1
SEP 24...	<3	520	450	<5	<5	<50	<50	.00	<1	1

05554490 VERMILION RIVER AT MC DOWELL, IL

LOCATION.--Lat 40°49'42", long 88°34'29", in SW¼ sec.6, T.27 N., R.6 E., Livingston County, Hydrologic Unit 07130002, at county road bridge, 0.3 mi east of McDowell, 0.4 mi downstream from Turtle Creek, 7.3 mi downstream from confluence of North and South Branches, and at mile 68.4.

DRAINAGE AREA.--551 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

REMARKS.--Water-discharge records from Vermilion River at Pontiac (station 05554500) were use to estimate mean daily discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
03...	1200	17002	17002	11	571	7.1	17.0	9.1	7.2	22	K40
NOV											
22...	1100	17002	17002	209	499	7.0	6.0	4.7	7.7	10	440
JAN											
18...	1100	17002	17002	140	770	7.2	.0	1.1	11.2	5	K60
APR											
02...	1200	17002	17002	832	642	7.7	8.0	4.1	10.4	4	530
30...	1200	17002	17002	398	672	7.8	12.0	8.1	9.7	6	--
JUN											
04...	1100	17002	17002	585	696	7.7	19.5	2.6	7.9	12	K150
JUL											
02...	1100	17002	17002	91	710	8.3	23.0	14	6.8	19	K160
31...	1100	17002	17002	14	643	7.6	24.0	8.1	9.2	24	K20
AUG											
30...	1100	17002	17002	.42	637	8.0	25.5	11	6.4	34	K100

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT											
03...	--	--	.00	68	--	43	--	20	--	3.3	--
NOV											
22...	--	--	.00	92	--	43	--	15	--	2.5	--
JAN											
18...	--	--	.00	95	--	45	--	11	--	1.5	--
APR											
02...	340	140	.00	78	76	37	36	6.5	6.4	1.1	.93
30...	--	--	.00	92	--	46	--	8.5	--	1.4	--
JUN											
04...	330	110	.00	84	75	39	35	9.0	7.9	1.8	.88
JUL											
02...	340	110	.00	79	74	41	38	12	11	2.2	1.3
31...	310	130	.00	58	56	42	42	20	21	2.8	2.3
AUG											
30...	290	140	.00	51	44	47	44	22	20	3.0	2.5

K Results based on colony count outside the acceptable range (non-ideal colony count).

05554490 VERMILION RIVER AT MC DOWELL, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT											
03...	193	110	96	24	2.4	<.100	<.001	--	--	--	--
NOV											
22...	236	78	29	3	8.0	<.100	<.001	--	--	470	--
JAN											
18...	256	92	4	1	9.9	.210	<.001	--	--	96	--
APR											
02...	194	68	31	2	12	<.100	<.001	.040	.020	550	80
30...	214	70	66	10	12	<.100	<.001	.050	.020	1300	--
JUN											
04...	222	67	96	16	14	<.100	<.002	.080	.020	2200	<50
JUL											
02...	229	78	108	97	9.6	.180	.017	.110	.020	2800	<50
31...	182	110	110	24	.47	<.100	<.002	.100	.020	2200	<50
AUG											
30...	156	140	128	103	.44	<.100	<.006	.190	.010	1100	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT											
03...	60	--	<2	--	140	--	<3	--	5	--	<5
NOV											
22...	62	--	<1	--	97	--	<3	--	<5	--	<5
JAN											
18...	50	--	<1	--	85	--	<3	--	<5	--	<5
APR											
02...	42	38	<1	<1	57	55	<3	15	<5	<5	<5
30...	50	--	<1	--	67	--	<3	--	6	--	<5
JUN											
04...	67	48	<1	<.5	85	75	4	<3	12	6	10
JUL											
02...	74	51	<1	<1	100	97	<3	<3	<5	<5	<5
31...	69	53	<1	<1	150	150	4	<3	10	12	<5
AUG											
30...	79	55	<1	<.5	130	130	<3	<3	<5	<5	<5

05554490 VERMILION RIVER AT MC DOWELL, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
OCT										
03...	--	<5	--	1800	--	<50	--	100	--	<.1
NOV										
22...	--	<5	--	680	--	<50	--	27	--	<.1
JAN										
18...	--	<5	--	62	--	<50	--	25	--	<.1
APR										
02...	<5	<5	<5	750	<50	<50	<50	26	21	<.1
30...	--	<5	--	1600	--	<50	--	48	--	<.1
JUN										
04...	<5	5	<5	2300	<50	<50	<50	57	6	<.1
JUL										
02...	<5	<5	<5	2900	<50	<50	<50	75	7	<.1
31...	7	<5	<5	2400	<50	<50	<50	96	5	<.1
AUG										
30...	<5	<5	<5	1500	<50	<50	<50	210	19	<.1

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
OCT										
03...	13	--	<3	--	190	--	<5	--	<100	--
NOV										
22...	<5	--	<3	--	210	--	<5	--	160	--
JAN										
18...	6	--	<3	--	220	--	<5	--	<50	--
APR										
02...	<5	<5	<3	<3	160	160	<5	<5	<50	<50
30...	<5	--	4	--	170	--	7	--	<50	--
JUN										
04...	18	<5	4	<3	200	180	12	6	<100	<100
JUL										
02...	<5	7	<3	<3	210	200	<5	<5	<100	<100
31...	7	<5	<3	<3	220	220	<5	<5	<50	<50
AUG										
30...	<5	<5	<3	<3	200	180	<5	<5	<50	<50

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05554500 VERMILION RIVER AT PONTIAC, IL

LOCATION.--Lat 40°52'40", long 88°38'10", in SW¼ sec.22, T.28 N., R.5 E., Livingston County, Hydrologic Unit 07130002, near center of span on downstream side of Vermilion Street Bridge in Pontiac, 0.1 mi upstream from Illinois Central Gulf Railroad bridge and State Highway 116, 0.8 mi upstream from Turtle Creek, 1.5 mi downstream from Norfolk & Western Railway bridge, and at mile 60.3.

DRAINAGE AREA.--579 mi².

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-83-2: 1951, 1957, 1965(M), 1968, 1970, 1980.

GAGE.--Water-stage recorder. Datum of gage is 619.45 ft National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1965, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Jan. 10 to Feb. 14, which are poor. An average of 1.4 ft³/s, diverted 0.5 mi above station for water supply of city of Pontiac, is not included in records. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--42 years, 394 ft³/s, 9.24 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft³/s Dec. 4, 1982, gage height, 19.16 ft; no flow Oct. 13, 14, 1953, Aug. 12-14, 1983, Sept. 2-4, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 12	1445	5370	11.97	Mar. 26	0700	3750	9.26
Feb. 14	Unknown	*6200	Unknown	May 23	1200	5150	11.64
Mar. 16	2345	4670	10.84	May 26	1930	4040	9.76
Mar. 21	0415	5500	12.17	May 29	0530	3280	8.45

No flow Sept. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	49	644	200	145	311	939	422	1110	106	12	.97
2	13	50	478	195	140	369	876	362	873	96	11	.00
3	12	46	399	190	160	343	785	362	718	89	11	.00
4	12	42	366	220	185	280	1140	377	616	89	12	.00
5	11	38	414	250	210	245	1160	360	544	87	14	1.3
6	11	36	881	270	235	220	938	340	486	91	12	2.5
7	11	31	1160	250	270	200	736	314	434	82	11	2.2
8	9.4	31	816	230	230	190	610	288	394	68	9.8	1.2
9	10	34	611	210	200	175	549	282	696	59	8.8	2.9
10	11	36	510	195	425	165	496	278	827	53	6.5	3.3
11	11	49	1410	185	800	155	445	257	586	56	5.8	3.7
12	11	70	5010	175	1500	145	421	250	445	58	5.3	5.1
13	11	79	4350	170	2700	135	424	229	390	61	4.5	2.6
14	11	73	3320	165	6000	130	417	219	350	51	3.8	3.3
15	12	59	3500	160	3300	296	416	202	310	44	2.7	3.3
16	12	55	2210	155	2200	3490	431	195	284	39	2.3	4.0
17	12	53	1380	150	1770	4160	440	189	268	33	2.8	4.7
18	14	48	957	148	1610	2530	428	183	242	29	3.5	4.0
19	16	49	500	147	1670	1780	402	199	224	27	2.8	2.5
20	19	56	600	144	1580	3900	369	611	199	33	2.8	.68
21	21	159	500	142	1270	5100	349	2220	185	36	2.6	1.6
22	33	220	430	140	1040	3480	453	2690	185	37	2.7	.40
23	262	253	380	140	893	2550	811	4790	183	30	2.4	2.0
24	303	571	340	138	757	2060	829	3220	253	27	2.9	2.7
25	189	529	305	136	624	2390	724	2070	293	22	3.8	1.1
26	130	357	275	134	523	3550	637	3560	206	25	3.2	.48
27	103	320	250	150	466	2700	574	3450	177	29	2.6	1.9
28	81	1280	235	160	308	2860	496	2690	153	28	2.3	1.5
29	72	1720	225	180	209	2110	447	3120	132	25	2.1	.56
30	60	1050	215	165	---	1410	419	2270	118	19	.44	.27
31	55	---	205	155	---	1150	---	1530	---	15	.23	---
TOTAL	1551.4	7443	32876	5449	31420	48579	18161	37529	11881	1544	169.67	60.76
MEAN	50.0	248	1061	176	1083	1567	605	1211	396	49.8	5.47	2.03
MAX	303	1720	5010	270	6000	5100	1160	4790	1110	106	14	5.1
MIN	9.4	31	205	134	140	130	349	183	118	15	.23	.00
CFSM	.09	.43	1.83	.30	1.87	2.71	1.04	2.09	.68	.09	.01	.00
IN.	.10	.48	2.11	.35	2.02	3.12	1.17	2.41	.76	.10	.01	.00

CAL YR 1983 TOTAL 189155.00 MEAN 518 MAX 6190 MIN .00 CFSM .89 IN. 12.15
WTR YR 1984 TOTAL 196663.83 MEAN 537 MAX 6000 MIN .00 CFSM .93 IN. 12.64

05555300 VERMILION RIVER NEAR LEONORE, IL

LOCATION.--Lat 41°12'30", long 88°55'51", in SW1/4SW1/4 sec.30, T.32 N., R.3 E., La Salle County, Hydrologic Unit 07130002, on downstream left pier of county highway bridge, 3 mi northeast of Leonore, 6.2 mi downstream from Otter Creek, 8 mi northwest of Streator, and at mile 17.2.

DRAINAGE AREA.--1,251 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1931 to current year. Prior to October 1971, published as "at Lowell."

REVISED RECORDS.--WSP 745: 1931-32. WSP 1308: 1932(M), 1935-38(M), 1940(M), 1942(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 520.58 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 20, 1952, nonrecording gage at site 6.8 mi downstream at datum 19.97 ft lower. Aug. 20, 1952, to Sept. 30, 1971, nonrecording gage at site 6.7 mi downstream at datum 19.97 ft lower.

REMARKS.--Water-discharge records good except those for period of no gage-height record, Nov. 30 to Apr. 18, which are poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--53 years, 827 ft³/s, 8.98 in/yr; discharge for site at Lowell adjusted for difference in drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,500 ft³/s July 15, 1958, gage height, 15.30 ft, from graph based on gage readings, site and datum then in use; minimum, 5.0 ft³/s Feb. 1-5, 1961, Dec. 21-24, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 12	--	9000	Unknown	Mar. 21	--	10000	Unknown
Feb. 14	Unknown	*23100	*23.05	May 23	1900	10600	15.73
Mar. 17	--	7500	Unknown				

Minimum daily discharge, 13 ft³/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	129	1250	400	270	600	2100	1330	2500	281	53	14
2	54	160	960	380	290	680	1700	1310	2000	265	46	14
3	53	177	820	400	325	600	1500	1200	1660	249	42	15
4	49	153	760	430	360	520	1850	1090	1420	239	39	15
5	44	119	1500	460	395	470	2200	1020	1260	229	39	19
6	45	96	1800	500	430	450	1900	949	1120	223	39	20
7	43	87	2500	460	500	430	1700	870	992	213	38	17
8	45	97	1700	420	440	410	1500	706	923	196	41	16
9	39	90	1300	400	400	390	1300	716	1130	179	41	28
10	36	108	1000	380	800	370	1200	676	1870	162	34	20
11	42	160	3000	360	1700	350	1050	671	1470	186	30	19
12	60	179	8600	340	3500	340	990	604	1120	160	28	17
13	70	203	2300	330	7750	325	940	685	930	150	23	15
14	60	224	6000	320	15000	320	900	520	821	143	22	14
15	60	215	6600	310	9000	1000	880	510	720	138	22	14
16	59	189	4100	300	5000	2500	930	500	668	118	22	14
17	59	170	2700	290	3500	7000	990	537	627	105	76	14
18	46	162	1700	285	3300	4600	1050	524	586	92	58	14
19	40	150	1100	282	3100	3500	1080	516	537	52	28	14
20	43	187	1000	280	2800	6000	1060	662	499	70	22	14
21	51	248	980	275	2500	8800	993	2380	464	91	21	14
22	81	313	880	270	2100	7000	2550	3200	480	85	21	13
23	99	1220	800	265	1700	5000	3900	8190	488	79	18	16
24	294	1740	700	260	1400	4000	3090	7240	441	77	17	17
25	406	1400	640	255	1200	5800	2550	3970	462	67	17	22
26	305	1030	580	250	1000	6400	2120	5640	482	81	17	20
27	237	1020	540	275	800	6200	1860	5920	420	90	16	16
28	198	3480	500	300	600	6300	1700	4640	364	78	16	15
29	175	3860	475	330	500	4000	1370	5950	330	68	16	14
30	163	2100	450	310	---	3300	1630	4690	302	66	15	14
31	157	---	420	285	---	2600	---	3330	---	58	15	---
TOTAL	3168	19466	57655	10402	70660	90255	48583	70746	27086	4290	932	488
MEAN	102	649	1860	336	2437	2911	1619	2282	903	138	30.1	16.3
MAX	406	3860	8600	500	15000	8800	3900	8190	2500	281	76	28
MIN	36	87	420	250	270	320	880	500	302	52	15	13
CFSM	.08	.52	1.49	.27	1.95	2.33	1.29	1.82	.72	.11	.02	.01
IN.	.09	.58	1.71	.31	2.10	2.68	1.44	2.10	.81	.13	.03	.01

CAL YR 1983	TOTAL	438439	MEAN	1201	MAX	14900	MIN	10	CFSM	.96	IN.	13.04
WTR YR 1984	TOTAL	403731	MEAN	1103	MAX	15000	MIN	13	CFSM	.88	IN.	12.01

05555300 VERMILION RIVER NEAR LEONORE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
04...	0930	17002	17002	51	794	7.7	19.0	2.0	10.9	29	140
NOV											
14...	1030	17002	17002	211	756	7.2	6.0	--	10.0	11	--
JAN											
12...	1000	17002	17002	E340	725	6.7	.0	2.0	13.6	5	920
FEB											
23...	0900	17002	17002	E1700	592	7.6	5.5	12	13.2	5	280
APR											
03...	1000	17002	17002	1610	630	7.6	7.0	20	11.0	7	--
JUN											
01...	0830	17002	17002	2560	641	7.6	15.0	36	8.3	7	910
JUL											
09...	1200	17002	17002	168	663	8.4	24.0	26	15.6	34	360
AUG											
14...	1130	17002	17002	21	752	7.5	27.0	5.0	5.1	23	9
SEP											
21...	0930	17002	17002	12	959	7.8	21.5	11	7.9	29	<100

DATE	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT											
04...	.00	65	44	43	5.4	200	140	28	9	.10	.010
NOV											
14...	.00	85	40	27	4.4	280	68	13	4	5.1	.250
JAN											
12...	.00	91	42	13	1.8	244	88	2	2	11	.260
FEB											
23...	.00	79	37	8.7	1.4	196	50	30	1	12	.070
APR											
03...	.00	78	37	8.3	1.7	200	57	50	8	12	.060
JUN											
01...	.00	81	36	9.4	1.4	200	49	97	14	15	.040
JUL											
09...	.00	77	42	19	3.2	200	85	89	27	7.6	.080
AUG											
14...	.00	55	46	42	4.7	164	160	15	7	.00	.000
SEP											
21...	.00	77	53	56	7.0	208	200	37	14	.20	.030

E Estimated.

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05555300 VERMILION RIVER NEAR LEONORE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 04...	<.001	—	—	330	49	<1	340	<3	5	<5
NOV 14...	<.001	—	--	210	57	<1	150	<3	<5	<5
JAN 12...	<.001	--	--	74	51	<1	110	<3	<5	<5
FEB 23...	<.001	.100	.070	630	52	<1	61	<3	6	<5
APR 03...	<.001	.070	.060	800	47	<1	69	<3	<5	<5
JUN 01...	<.001	.120	.060	1300	68	<2	87	<3	8	5
JUL 09...	.010	.240	.040	700	64	<1	150	<3	<5	<5
AUG 14...	<.001	.140	.070	150	62	<1	330	<3	<5	<5
SEP 21...	<.001	.150	.040	470	76	<1	470	<3	7	<5

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 04...	<5	580	<50	120	<.1	10	<3	230	<5	<100
NOV 14...	<5	620	<50	43	<.1	<5	<3	210	<5	<100
JAN 12...	<5	86	<50	23	<.1	8	<3	190	<5	<50
FEB 23...	<5	920	<50	32	<.1	6	<3	160	<5	120
APR 03...	<5	1300	<50	43	<.1	<5	<3	160	<5	<50
JUN 01...	5	1500	<50	68	<.1	10	<3	190	10	<50
JUL 09...	<5	1100	<50	61	<.1	<5	<10	220	<5	<100
AUG 14...	<5	510	<50	290	<.1	<5	<10	270	<5	<100
SEP 21...	<5	810	<50	190	<.1	<5	5	430	<5	<50

05555950 LITTLE VERMILION RIVER AT LA SALLE, IL

LOCATION.--Lat 41°20'00", long 89°04'51", in SW¼SE¼ sec.14, T.33 N., R.1 E., La Salle County, Hydrologic Unit 07130001, at east edge of La Salle, 4.1 mi downstream from Tomahawk Creek and at mile 0.7.

DRAINAGE AREA.--125 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DR 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)
OCT											
04...	1200	17002	17002	1100	7.6	20.0	18	9.6	21	50	93
NOV											
14...	1330	17002	17002	899	7.6	6.0	5.0	10.3	8	--	98
JAN											
12...	1230	17002	17002	870	7.8	.0	9.0	13.9	5	<10	100
FEB											
23...	1100	17002	17002	612	7.7	5.5	170	14.0	16	250	98
APR											
03...	1300	17002	17002	628	7.8	5.0	400	12.3	40	--	100
JUN											
01...	1030	17002	17002	689	7.9	15.0	28	8.7	9	500	84
JUL											
09...	1030	17002	17002	764	8.4	22.0	5.0	9.7	3	91	83
AUG											
14...	1000	17002	17002	892	7.6	23.5	22	6.9	24	45	72
SEP											
21...	1100	17002	17002	829	7.8	21.0	10	5.7	10	200	66

DATE	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONISED (MG/L AS N) (00619)
OCT										
04...	45	78	12	150	92	27	10	.30	.370	.006
NOV										
14...	42	48	8.9	120	51	12	5	1.3	.350	.002
JAN										
12...	46	33	5.5	94	53	16	5	6.1	.530	.003
FEB										
23...	40	14	2.6	56	35	420	15	9.6	.110	<.001
APR										
03...	41	15	4.1	64	33	690	75	3.8	.090	<.001
JUN										
01...	36	15	2.0	53	33	94	16	13	.060	.001
JUL										
09...	42	30	4.2	86	44	25	6	4.9	.200	.022
AUG										
14...	46	65	8.6	120	81	43	12	.20	.160	.003
SEP										
21...	39	56	8.1	110	64	23	4	.30	.300	.008

05555950 LITTLE VERMILION RIVER AT LA SALLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
OCT 04...	--	--	3900	95	<1	290	4	<5	<5	6
NOV 14...	--	--	170	79	<1	210	<3	<5	<5	<5
JAN 12...	--	--	310	81	<1	140	5	<5	<5	<5
FEB 23...	.260	.080	2700	96	<2	52	5	7	5	8
APR 03...	.480	.040	9200	100	<1	78	7	19	14	14
JUN 01...	.140	.070	980	100	<2	63	3	<5	6	5
JUL 09...	.140	.090	480	100	<1	110	<3	<5	<5	<5
AUG 14...	.170	.040	860	100	<1	210	<3	<5	<5	<5
SEP 21...	.130	.070	410	96	<2	190	<3	<10	<5	5

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 04...	1000	--	420	<.1	8	<3	310	<5	4000	0
NOV 14...	590	<50	260	<.1	6	<3	320	<5	2200	0
JAN 12...	350	<50	180	<.1	13	<3	260	5	1900	--
FEB 23...	5500	<50	260	<.1	13	<3	180	7	450	0
APR 03...	13000	<100	400	.1	30	<3	220	21	880	1
JUN 01...	1100	<50	110	<.1	17	<3	170	9	320	1
JUL 09...	610	<50	120	<.1	<5	<3	250	<5	1200	2
AUG 14...	1300	<50	420	--	<5	<10	300	<5	2300	0
SEP 21...	710	<100	210	<.1	<10	<5	340	<10	1500	--

05556200 ILLINOIS RIVER AT HENNEPIN, IL

LOCATION.--Lat 41°15'26", long 89°20'45", in NW¼ sec.9, T.32 N., R.2 W., Putnam County, Hydrologic Unit 07130001, at bridge on State Highways 26 and 71 in Hennepin, 0.6 mi (1.0 km) upstream from Coffee Creek and at mile 207.6 (334.0 km).

DRAINAGE AREA.--12,756 mi² (33,038 km²).

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1967-69, 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site D 16.

REMARKS.--Water-discharge records for Illinois River at Henry (station 05558300) were used to estimate mean daily discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)
NOV 09...	1200	17002	17002	E6580	751	7.2	12.5	19	7.3	31
DEC 14...	1345	17002	17002	E26000	623	7.2	4.0	30	12.6	31
JAN 05...	1230	17002	17002	E13100	834	8.4	.0	4.0	12.9	11
MAR 12...	1330	17002	17002	E11600	670	6.9	1.0	4.0	--	16
APR 09...	1300	17002	17002	E21800	726	7.5	9.0	14	11.4	12
MAY 14...	1230	17002	17002	E15800	930	8.7	16.0	17	--	17
JUN 28...	1230	17002	17002	E11800	690	--	26.0	22	--	29
AUG 20...	1500	17002	17002	E7100	641	7.4	27.0	16	8.4	25
SEP 20...	1030	17002	17002	E6530	660	7.7	21.5	11	9.0	23

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)
NOV 09...	91	68	30	56	5.5	44	10	3.60	.600	.002
DEC 14...	--	47	19	25	2.7	60	6	2.50	.290	<.001
JAN 05...	210	88	35	49	4.3	5	2	5.20	1.00	.021
MAR 12...	<100	83	34	50	3.8	45	9	5.30	.840	<.001
APR 09...	K130	85	35	34	3.7	33	5	6.40	.610	.003
MAY 14...	100	76	33	39	3.3	34	9	4.80	.060	.008
JUN 28...	270	66	27	42	4.1	56	17	4.30	.330	--
AUG 20...	--	52	23	50	4.9	24	11	2.22	.150	.002
SEP 20...	81	56	23	48	5.2	37	11	2.90	.060	.001

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

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05556200 ILLINOIS RIVER AT HENNEPIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
NOV 09...	--	--	660	55	<1	190	<3	5	<5	9
DEC 14...	--	--	2100	56	<1	60	3	15	<5	17
JAN 05...	--	--	260	60	<2	150	<3	<5	<5	<5
MAR 12...	.300	.180	570	50	<1	120	<3	12	6	9
APR 09...	.130	.100	530	49	<1	120	<3	<5	<5	<5
MAY 14...	.190	.080	460	50	<1	130	<3	<5	<5	<5
JUN 28...	.310	.230	1500	63	<2	140	<3	<5	<5	<5
AUG 20...	.240	.210	370	45	<1	190	<3	<5	<5	<5
SEP 20...	.360	.300	530	52	<2	190	<3	<5	<5	6

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV 09...	1300	<50	98	<.1	15	<3	360	<5	<100
DEC 14...	3200	<50	160	<.1	13	<3	140	5	<100
JAN 05...	350	<50	45	<.1	<5	<3	310	<5	100
MAR 12...	1200	<100	77	<.1	15	<3	280	6	<100
APR 09...	790	<50	58	<.1	<5	<3	230	<5	<100
MAY 14...	790	--	69	<.1	6	<3	260	<5	<100
JUN 28...	1600	<50	92	<.1	<5	--	260	<5	<100
AUG 20...	510	<50	75	<.1	6	<3	300	<5	<100
SEP 20...	730	<50	59	<.1	<5	<3	350	<5	<50

05556500 BIG BUREAU CREEK AT PRINCETON, IL

LOCATION.--Lat 41°21'55", long 89°29'55", in SW¼SE¼ sec.18, T.16 N., R.9 E., Bureau County, Hydrologic Unit 07130001, on right bank 500 ft downstream from bridge on U.S. Highways 6 and 34, 0.6 mi downstream from Epperson Run, 1.5 mi west of Princeton, and at mile 20.5.

DRAINAGE AREA.--196 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1936 to current year. Prior to October 1974, published as Bureau Creek at Princeton.

REVISED RECORDS.--WSP 1175: 1940-41, 1948. WSP 1308: 1942(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 555.39 ft (revised) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 18, 1940, nonrecording gage at bridge 400 ft upstream at datum 30.00 ft lower. July 18, 1940, to Sept. 30, 1944, water-stage recorder at site 500 ft upstream at present datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--48 years, 135 ft³/s, 9.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s May 17, 1974, gage height, 16.01 ft, from rating curve extended above 11,800 ft³/s; no flow during January 1940 and for several days in October and November 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 13	1215	*3770	*8.76	June 22	0830	2110	6.79

Minimum discharge, 3.2 ft³/s Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	7.4	160	48	37	145	223	184	342	79	14	4.3
2	4.8	9.7	142	46	39	134	211	173	280	71	13	3.8
3	4.8	9.6	129	45	40	120	218	178	237	64	12	3.9
4	4.8	8.4	122	46	41	117	233	173	213	61	12	5.0
5	5.0	9.9	115	48	40	116	249	156	194	54	12	6.6
6	5.7	11	110	49	37	106	240	148	213	51	11	5.3
7	5.5	10	108	50	35	105	221	142	742	42	9.7	5.6
8	5.5	11	101	49	34	97	206	133	347	36	8.7	5.9
9	5.7	10	90	46	34	89	199	129	273	33	8.0	5.3
10	6.0	13	80	43	38	90	184	128	234	53	7.9	5.3
11	6.2	12	105	42	60	89	171	127	210	74	7.3	6.3
12	10	9.8	171	42	402	86	182	120	203	53	6.4	5.3
13	6.9	9.5	178	44	3110	89	189	116	196	45	5.8	6.8
14	6.5	12	169	43	1620	89	175	111	253	38	5.8	5.7
15	6.5	10	150	42	611	104	173	105	215	34	6.0	5.5
16	6.8	10	120	40	476	329	189	102	203	29	6.0	5.1
17	7.0	10	100	39	396	252	203	101	184	26	6.5	5.4
18	6.8	9.8	88	38	350	193	199	99	164	24	19	5.1
19	6.5	12	79	38	458	197	184	100	150	23	7.9	5.4
20	6.5	13	70	37	378	428	173	112	137	27	6.0	5.1
21	7.6	13	67	36	305	517	167	104	126	23	5.7	5.2
22	9.5	22	68	35	260	416	279	137	528	20	6.0	5.7
23	9.0	126	66	35	237	499	395	235	152	18	5.9	10
24	12	180	60	36	215	404	325	224	123	16	6.1	6.2
25	13	129	54	37	195	428	286	826	109	19	6.0	9.9
26	11	105	53	39	179	375	247	703	102	25	5.5	7.4
27	9.5	107	51	40	167	346	223	428	157	23	5.7	6.5
28	8.2	256	50	40	154	327	194	913	143	17	5.4	5.9
29	7.1	280	51	39	142	295	194	942	102	14	5.2	5.4
30	7.9	201	52	38	---	258	213	561	88	14	4.6	5.1
31	8.8	---	50	36	---	236	---	423	---	14	4.7	---
TOTAL	225.6	1627.1	3009	1286	10090	7156	6545	8133	6620	1120	245.8	174.0
MEAN	7.28	54.2	97.1	41.5	348	231	218	262	221	36.1	7.93	5.80
MAX	13	280	178	50	3110	517	395	942	742	79	19	10
MIN	4.6	7.4	50	35	34	86	167	99	88	14	4.6	3.8
CFSM	.04	.28	.50	.21	1.78	1.18	1.11	1.34	1.13	.18	.04	.03
IN.	.04	.31	.57	.24	1.92	1.36	1.24	1.54	1.26	.21	.05	.03

CAL YR 1983 TOTAL 60567.8 MEAN 166 MAX 3720 MIN 4.2 CFSM .85 IN. 11.50
WTR YR 1984 TOTAL 46231.5 MEAN 126 MAX 3110 MIN 3.8 CFSM .64 IN. 8.77

05556500 BIG BUREAU CREEK AT PRINCETON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 24...	1230	17002	17002	12	676	7.6	11.0	6.0	9.8	15	370
NOV 22...	1130	17002	17002	20	635	7.7	6.0	240	11.6	16	340
DEC 23...	1230	17002	17002	E66	742	6.5	.0	650	13.9	99	--
FEB 27...	1130	17002	17002	167	639	7.8	2.5	6.0	14.2	4	78
MAR 26...	1200	17002	17002	375	701	7.8	4.5	23	13.3	5	64
MAY 02...	0930	17002	17002	173	740	8.0	11.0	5.0	--	51	54
JUN 06...	1230	17002	17002	178	692	8.1	23.5	22	8.4	34	160
JUL 19...	1100	17002	17002	23	622	7.9	22.5	25	8.9	15	230
SEP 05...	1000	17002	17002	6.2	599	7.7	20.0	21	8.2	42	5600

DATE	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 24...	.00	82	38	25	3.6	252	61	18	2	2.9	.060
NOV 22...	.00	78	39	17	3.9	240	55	51	10	2.0	.030
DEC 23...	.00	210	87	13	4.2	276	53	1800	100	11	.100
FEB 27...	.00	88	38	11	1.6	232	45	22	8	10	.040
MAR 26...	.00	81	36	7.2	1.5	206	41	78	15	12	.030
MAY 02...	.00	91	45	10	1.4	220	50	20	4	13	.430
JUN 06...	.00	87	38	10	1.6	224	43	69	7	14	.010
JUL 19...	.00	64	38	17	2.6	216	53	62	13	4.1	.080
SEP 05...	.00	45	24	44	6.1	172	40	36	13	3.2	.240

E Estimated.

05556500 BIG BUREAU CREEK AT PRINCETON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 24...	<.001	--	--	430	72	<1	110	<3	<5	<5
NOV 22...	<.001	--	--	690	89	<1	67	<3	7	<5
DEC 23...	<.001	--	--	11000	300	2	55	9	32	19
FEB 27...	<.001	.110	.110	490	86	<1	<50	<3	<5	<5
MAR 26...	<.001	.100	.050	1100	82	<1	<50	<3	<5	<5
MAY 02...	.009	.680	.740	250	76	<1	<50	<3	<5	<5
JUN 06...	<.001	.110	.070	1500	100	<1	<50	<3	<5	<5
JUL 19...	.003	.290	.270	1200	100	<1	77	5	<5	<5
SEP 05...	.005	1.70	1.50	760	56	<1	240	4	7	8

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 24...	<5	460	<50	45	<.1	57	<3	150	<5	<50
NOV 22...	<5	1200	<50	100	<.1	23	<3	150	<5	<50
DEC 23...	28	18000	<100	990	<.1	87	<3	220	35	120
FEB 27...	<5	590	<50	52	<.1	10	<3	140	<5	<100
MAR 26...	<5	1400	<50	57	<.1	<5	<3	130	<5	<50
MAY 02...	<5	410	<50	41	<.1	<5	<3	130	7	<100
JUN 06...	<5	1500	<100	71	<.1	<5	<3	150	5	<50
JUL 19...	<5	1300	<50	110	<.1	8	<3	150	<5	<50
SEP 05...	9	810	<50	82	<.1	130	<3	100	<5	<50

05557000 WEST BUREAU CREEK AT WYANET, IL

LOCATION.--Lat 41°21'54", long 89°34'08", in NE¼NE¼ sec.21, T.16 N., R.8 E., Bureau County, Hydrologic Unit 07130001, at bridge on U.S. Highways 6 and 34, 0.5 mi east of Wyanet, 8.7 mi downstream from Lime Creek, and at mile 6.0.

DRAINAGE AREA.--86.7 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972, 1974-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DQD 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 24...	1030	17002	17002	7.7	781	7.6	11.0	2.0	9.4	20	2100
NOV 22...	1030	17002	17002	17	791	7.7	7.0	1.0	11.2	2	400
DEC 23...	1100	17002	17002	E25	855	7.4	.0	10	13.4	6	--
FEB 27...	1030	17002	17002	68	728	7.7	1.5	1.0	14.2	2	110
MAR 26...	1000	17002	17002	146	666	7.8	4.0	4.0	12.6	1	82
MAY 02...	1200	17002	17002	77	610	8.0	12.0	1.0	--	2	36
JUN 06...	1000	17002	17002	92	771	8.1	21.0	3.0	8.2	8	180
JUL 19...	0930	17002	17002	7.3	736	7.6	19.5	38	8.3	5	380
SEP 05...	1130	17002	17002	20	618	7.4	19.0	8.0	6.2	10	2100

DATE	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 24...	.00	97	43	12	4.8	296	59	13	7	3.2	1.20
NOV 22...	.00	100	43	12	2.6	292	64	7	7	6.6	.040
DEC 23...	.00	120	47	11	1.8	312	63	2	2	13	.360
FEB 27...	.00	100	41	10	1.4	268	56	14	4	13	.010
MAR 26...	.00	98	41	8.6	1.3	244	50	38	8	15	.010
MAY 02...	.00	95	46	10	1.1	240	50	5	1	17	.000
JUN 06...	.00	100	43	12	1.2	244	54	32	5	17	.000
JUL 19...	.00	80	39	12	1.8	256	54	22	5	12	.080
SEP 05...	.00	64	36	9.6	2.4	240	48	20	8	.50	.050

E Estimated.

05557000 WEST BUREAU CREEK AT WYANET, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 24...	.010	--	--	160	98	<1	<50	<3	<5	<5
NOV 22...	<.001	--	--	72	99	<1	<50	<3	8	<5
DEC 23...	<.001	--	--	110	100	<2	<50	<3	8	<5
FEB 27...	<.001	.070	.050	310	96	<1	<50	<3	<5	<5
MAR 26...	<.001	.070	.030	510	92	<1	<50	<3	<5	<5
MAY 02...	<.001	.030	.030	81	88	<1	<50	<3	<5	<5
JUN 06...	<.001	.060	.040	810	100	<1	<50	<3	9	<5
JUL 19...	.001	.070	.050	330	100	<1	<50	3	180	<5
SEP 05...	<.001	.070	.030	490	88	<1	52	<3	<5	<5

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 24...	<5	150	<50	40	<.1	7	<3	180	<5	<50
NOV 22...	<5	110	<50	19	--	7	3	190	<5	<50
DEC 23...	<5	150	<50	35	<.1	6	<3	190	<5	<50
FEB 27...	<5	370	<50	42	<.1	6	<3	170	<5	<50
MAR 26...	<5	660	<50	40	<.1	<5	<3	160	<5	<50
MAY 02...	<5	180	<50	27	<.1	<5	<3	160	<5	130
JUN 06...	<5	820	<50	42	<.1	<5	4	190	8	<50
JUL 19...	<5	370	<50	30	<.1	<5	<3	170	<5	<50
SEP 05...	<5	360	<50	92	<.1	8	<3	140	<5	<50

05558300 (corrected) ILLINOIS RIVER AT HENRY, IL

LOCATION.--Lat 41°06'36", long 89°21'00", in SW1/4 sec.15, T.13 N., R.10 E., Marshall County, Hydrologic Unit 07130001, on right bank about 600 ft upstream from bridge on State Highway 18, 4.4 mi upstream from Crow Creek, 38.2 mi upstream from Peoria Lock and Dam, and at mile 196.0.

DRAINAGE AREA.--13,543 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder and point-velocity meter. Datum of gage is 425.88 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 108,000 ft^3/s Dec. 7, 1982, based on area-velocity curve; maximum gage height, 30.75 ft Mar. 22, 1982; minimum daily discharge, 4,970 ft^3/s Oct. 6, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 22, 1979, reached a stage of 32.67 ft, from information by the Corps of Engineers, discharge, about 140,000 ft^3/s, based on rating curve extended above 32.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53,700 ft^3/s Mar. 23, based on area-velocity curve; maximum gage height, 24.68 ft Feb. 19; minimum daily discharge, 5,210 ft^3/s Aug. 29, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6760	7490	19000	15000	10000	23200	31900	27700	42100	11000	7310	6000
2	6940	8540	15000	14900	9900	22300	30600	25400	36900	10500	7410	6930
3	7240	9530	13100	14700	10000	21800	28600	23800	34300	9300	7460	8110
4	7220	7570	12000	14400	9900	20700	26700	22500	31000	8720	7280	8220
5	6980	8240	11000	13900	9800	17400	26900	21600	27100	8700	7190	7870
6	7410	7820	14400	13000	9600	17400	26900	19200	26600	8770	6640	7450
7	7140	7410	16300	12200	9700	16300	23900	18200	22200	9050	6190	6160
8	7860	7400	17500	12500	12800	15700	23400	19000	22100	9050	7990	7410
9	7590	7000	17100	12000	11500	14000	23200	20400	21000	9050	7830	7540
10	7040	8230	13600	12100	9770	13100	22300	20200	21900	9340	9220	7100
11	7290	6300	12400	12100	12500	13700	21100	19500	22800	11500	8240	7340
12	8060	7170	19200	11900	17800	12300	20000	17200	22000	9780	8470	6120
13	8110	6870	34000	11800	25100	12800	21500	17300	21500	9520	8190	7170
14	7740	8120	27700	11400	33000	12800	22200	16800	21300	8870	8420	7450
15	7850	7510	31500	11000	44000	15800	22500	15600	20200	9610	8100	6830
16	6980	7430	38700	10900	48300	30300	23200	14100	19500	8800	8060	7530
17	6960	7720	29500	10600	47800	32200	20800	13500	16800	8490	8000	7030
18	7240	7920	21500	10200	44100	29100	21900	12800	16100	8510	7810	6270
19	8420	8330	16600	10400	43000	30500	20600	12500	15500	7370	6800	6560
20	8300	10500	22200	10300	43000	37400	20100	13500	13900	8200	7560	6950
21	8010	10500	20700	9900	41500	44800	20400	14200	13300	8840	7160	6650
22	7740	9520	17400	9500	39600	46400	21000	17200	14600	7720	7050	6310
23	11300	11600	18200	9500	37500	48900	31600	24800	15600	8690	6170	7150
24	11700	18100	16400	9600	34600	46100	34200	34100	14700	8440	5520	6430
25	12300	18400	16300	9500	30700	43400	31400	38600	14400	8640	5700	9300
26	12900	16000	16500	10100	30400	42100	28400	39700	13700	7890	5520	10600
27	10900	15000	15700	9600	28300	42600	29700	40400	13600	8000	5410	8780
28	10400	21000	15900	10000	23800	42700	26000	40300	12500	8050	5700	8800
29	9450	26000	16100	9700	21600	38700	26300	44900	12800	7900	5210	7680
30	9440	22300	15500	10100	---	34500	29800	48100	12500	7690	6540	7340
31	8160	---	15200	10200	---	32500	---	47400	---	7370	5210	---
TOTAL	261430	325520	596200	353000	749570	871500	757100	760500	612500	273360	219360	221080
MEAN	8433	10850	18910	11390	25850	28110	25240	24530	20420	8818	7076	7369
MAX	12900	26000	38700	15000	48300	48900	34200	48100	42100	11500	9220	10600
MIN	6760	6300	11000	9500	9600	12300	20000	12500	12500	7370	5210	6000

CAL YR 1983 TOTAL 6227370 MEAN 17060 MAX 86200 MIN 5800
WTR YR 1984 TOTAL 5991120 MEAN 16370 MAX 48900 MIN 5210

BEST COPY AVAILABLE

05558300 ILLINOIS RIVER AT HENRY, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: June 1983 to current year.

REMARKS.--Suspended-sediment samples are collected every other day with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED CONCENTRATIONS: Maximum daily mean, 310 mg/L May 2, 1984; minimum daily mean, 22 mg/L Jan. 10-23, Apr. 7, 1984.
SUSPENDED LOADS: Maximum daily, 21,300 tons May 2, 1984; minimum daily, 564 tons Jan. 22, 23, 1984.

EXTREMES FOR CURRENT PERIOD.--
SUSPENDED CONCENTRATIONS: Maximum daily mean, 310 mg/L May 2; minimum daily mean, 22 mg/L Jan. 10-23, Apr. 7.
SEDIMENT LOADS: Maximum daily, 21,300 tons May 2; minimum daily, 564 tons Jan. 22, 23.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	6760	54	986	7490	47	950	19000	44	2260
2	6940	65	1220	8540	37	853	15000	35	1420
3	7240	75	1470	9530	47	1210	13100	31	1100
4	7220	83	1620	7570	86	1760	12000	30	972
5	6980	82	1550	8240	93	2070	11000	33	980
6	7410	72	1440	7820	86	1820	14400	34	1320
7	7140	64	1230	7410	74	1480	16300	28	1230
8	7860	63	1340	7400	68	1360	17500	35	1650
9	7590	67	1370	7000	67	1270	17100	38	1750
10	7040	82	1560	8230	57	1270	13600	37	1360
11	7290	103	2030	6300	50	850	12400	33	1100
12	8060	117	2550	7170	46	891	19200	33	1710
13	8110	114	2500	6870	42	779	34000	33	3030
14	7740	98	2050	8120	41	899	27700	33	2470
15	7850	78	1650	7510	41	831	31500	31	2640
16	6980	60	1130	7430	36	722	38700	29	3030
17	6960	49	921	7720	31	646	29500	28	2230
18	7240	59	1150	7920	28	599	21500	26	1510
19	8420	73	1660	8330	32	720	16600	24	1080
20	8300	83	1860	10500	44	1250	22200	23	1380
21	8010	90	1950	10500	50	1420	20700	24	1340
22	7740	91	1900	9520	52	1340	17400	26	1320
23	11300	94	2870	11600	47	1470	18200	30	1470
24	11700	95	3000	18100	54	2640	16400	28	1240
25	12300	93	3090	18400	77	3830	16300	27	1190
26	12900	86	3000	16000	45	1940	16500	27	1200
27	10900	73	2150	15000	84	3400	15700	26	1100
28	10400	66	1850	21000	139	7880	15900	25	1070
29	9450	57	1450	26000	72	5050	16100	25	1090
30	9440	53	1350	22300	56	3370	15500	25	1050
31	8160	52	1150	---	---	---	15200	24	985
TOTAL	261430	---	55047	325520	---	54570	586200	---	47277

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05558300 ILLINOIS RIVER AT HENRY, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	15000	24	972	10000	24	648	23200	33	2070
2	14900	24	966	9900	25	668	22300	33	1990
3	14700	24	953	10000	25	675	21800	34	2000
4	14400	24	933	9900	24	642	20700	34	1900
5	13900	24	901	9800	23	609	17400	33	1550
6	13000	23	807	9600	24	622	17400	31	1460
7	12200	23	758	9700	26	681	16300	29	1280
8	12500	23	776	12800	30	1040	15700	30	1270
9	12000	23	745	11500	34	1060	14000	31	1170
10	12100	22	719	9770	33	871	13100	30	1060
11	12100	22	719	12500	38	1280	13700	27	999
12	11900	22	707	17800	43	2070	12300	27	897
13	11800	22	701	25100	42	2850	12800	36	1240
14	11400	22	677	33000	40	3560	12800	54	1870
15	11000	22	653	44000	40	4750	15800	60	2560
16	10900	22	647	48300	40	5220	30300	64	5240
17	10600	22	630	47800	41	5290	32200	58	5040
18	10200	22	606	44100	38	4520	29100	54	4240
19	10400	22	618	43000	32	3720	30500	66	5440
20	10300	22	612	43000	29	3370	37400	84	8480
21	9900	22	588	41500	29	3250	44800	92	11100
22	9500	22	564	39600	28	2990	46400	158	19800
23	9500	22	564	37500	28	2840	48900	104	13700
24	9600	23	596	34600	28	2620	46100	81	10100
25	9500	24	616	30700	30	2490	43400	59	6910
26	10100	24	654	30400	32	2630	42100	52	5910
27	9600	24	622	28300	33	2520	42600	66	7590
28	10000	24	648	23800	33	2120	42700	67	7720
29	9700	24	629	21600	33	1920	38700	42	4390
30	10100	24	654	---	---	---	34500	33	3070
31	10200	24	661	---	---	---	32500	30	2630
TOTAL	353000	---	21896	749570	---	67526	871500	---	144676
		APRIL			MAY			JUNE	
1	31900	29	2500	27700	186	13900	42100	49	5570
2	30600	31	2560	25400	310	21300	36900	37	3690
3	28600	52	4020	23800	181	11600	34300	45	4170
4	26700	66	4760	22500	105	6380	31000	42	3520
5	26900	48	3490	21600	92	5370	27100	52	3800
6	26900	28	2030	19200	87	4510	26600	48	3450
7	23900	22	1420	18200	84	4130	22200	47	2820
8	23400	27	1710	19000	82	4210	22100	50	2980
9	23200	33	2070	20400	80	4410	21000	53	3010
10	22300	55	3310	20200	72	3930	21900	61	3610
11	21100	73	4160	19500	62	3260	22800	50	3080
12	20000	78	4210	17200	62	2880	22000	58	3450
13	21500	78	4530	17300	62	2900	21500	78	4530
14	22200	75	4500	16800	64	2900	21300	89	5120
15	22500	69	4190	15600	63	2650	20200	91	4960
16	23200	63	3950	14100	62	2360	19500	88	4630
17	20800	59	3310	13500	63	2300	16800	85	3860
18	21900	57	3370	12800	66	2280	16100	81	3520
19	20600	57	3170	12500	71	2400	15500	80	3350
20	20100	57	3090	13500	72	2620	13900	80	3000
21	20400	60	3300	14200	71	2720	13300	80	2870
22	21000	59	3350	17200	66	3070	14600	78	3070
23	31600	63	5380	24800	66	4420	15600	71	2990
24	34200	67	6190	34100	71	6540	14700	65	2580
25	31400	75	6360	38600	75	7820	14400	62	2410
26	28400	152	11700	39700	82	8790	13700	59	2180
27	29700	142	11400	40400	76	8290	13600	54	1980
28	26000	102	7160	40300	76	8270	12500	50	1690
29	26300	86	6110	44900	98	11900	12800	46	1590
30	29800	78	6280	48100	122	15800	12500	44	1490
31	---	---	---	47400	77	9850	---	---	---
TOTAL	757100	---	133580	760500	---	193760	612500	---	98970

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05558300 ILLINOIS RIVER AT HENRY, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	11000	46	1370	7310	55	1090	6000	68	1100
2	10500	48	1360	7410	58	1160	6930	68	1270
3	9300	50	1260	7460	62	1250	8110	66	1450
4	8720	51	1200	7280	60	1180	8220	66	1460
5	8700	51	1200	7190	52	1010	7870	68	1440
6	8770	51	1210	6640	44	789	7450	57	1150
7	9050	52	1270	6190	39	652	6160	46	765
8	9050	55	1340	7990	39	841	7410	42	840
9	9050	56	1370	7830	38	803	7540	43	875
10	9340	58	1460	9220	37	921	7100	46	882
11	11500	71	2200	8240	41	912	7340	53	1050
12	9780	73	1930	8470	55	1260	6120	38	628
13	9520	69	1770	8190	68	1500	7170	50	968
14	8870	64	1530	8420	64	1450	7450	68	1370
15	9610	57	1480	8100	60	1310	6830	67	1240
16	8800	50	1190	8060	57	1240	7530	62	1260
17	8490	46	1050	8000	57	1230	7030	58	1100
18	8510	44	1010	7810	57	1200	6270	55	931
19	7370	42	836	6800	58	1060	6560	53	939
20	8200	40	886	7560	57	1160	6950	50	938
21	8840	41	979	7160	55	1060	6650	49	880
22	7720	43	896	7050	54	1030	6310	44	750
23	8690	51	1200	6170	54	900	7150	41	792
24	8440	56	1280	5520	54	805	6430	38	660
25	8640	59	1380	5700	55	846	9300	38	954
26	7890	60	1280	5520	58	864	10600	37	1060
27	8000	57	1230	5410	85	1240	8780	38	901
28	8050	57	1240	5700	79	1220	8800	39	927
29	7900	56	1190	5210	67	942	7680	38	788
30	7690	55	1140	6540	63	1110	7340	37	733
31	7370	53	1050	5210	65	914	---	---	---
TOTAL	273360	---	39787	219360	---	32949	221080	---	30101
YEAR	5991120		920139						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPERATURE (DEG C) (00010)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT						
25...	1405	--	13500	98	3680	94
DEC						
08...	1445	2.0	17700	60	2870	92
FEB						
23...	1610	--	37300	26	2620	98
MAR						
13...	1350	1.5	12200	36	1250	92
APR						
10...	1320	10.5	23200	32	2000	98
MAY						
09...	1350	14.5	20100	107	5810	99
JUL						
10...	1305	27.5	9010	77	1870	97
31...	1320	--	5790	52	813	98
AUG						
28...	1255	--	6260	78	1320	95

05558995 ILLINOIS RIVER AT LACON, IL

LOCATION.--Lat 41°01'30", long 89°25'02", in SE¼ sec.13, T.12 N., R.9 E., Marshall County, Hydrologic Unit 07130001, at bridge on State Highway 17 at west edge of Lacon, 2.5 mi downstream from Crow Creek and at mile 189.2.

DRAINAGE AREA.--13,666 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1960-77 are published in Water-Resources Investigations 78-23 and 79-24 as site D 09.

REMARKS.--Water-discharge records from Illinois River at Henry (station 05558300) were used to estimate discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)
NOV 09...	1035	17002	17002	E7060	748	7.1	12.0	13	7.0	24
DEC 14...	1130	17002	17002	E27900	396	6.5	4.0	32	12.2	17
JAN 05...	1100	17002	17002	E14000	855	7.7	.0	5	10.6	15
MAR 12...	1230	17002	17002	E12400	750	--	.5	32	--	22
APR 09...	1100	17002	17002	E23400	712	7.6	8.5	16	11.5	1
MAY 14...	1100	17002	17002	E13600	880	7.9	16.0	23	--	22
JUN 28...	1030	17002	17002	E12600	690	--	25.0	28	--	28
AUG 20...	1330	17002	17002	E7630	617	7.5	26.5	23	7.6	33
SEP 20...	0930	17002	17002	E7010	637	7.6	21.0	10	8.2	17

DATE	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)
NOV 09...	27	67	30	55	5.8	52	9	3.8	.470	.001
DEC 14...	--	68	28	39	4.1	50	7	3.6	.400	<.001
JAN 05...	120	88	36	50	4.2	8	3	5.9	.970	.004
MAR 12...	<100	88	36	47	3.7	65	11	5.7	.600	--
APR 09...	K80	83	35	32	3.6	46	5	6.4	.400	.003
MAY 14...	9	77	34	33	3.0	54	13	5.0	.050	.001
JUN 28...	270	66	28	40	4.3	81	24	4.4	.180	--
AUG 20...	--	50	22	45	4.7	43	18	1.7	.280	.006
SEP 20...	73	54	22	45	4.8	41	10	2.8	.050	<.001

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

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05558995 ILLINOIS RIVER AT LACON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
NOV 09...	--	--	780	55	<1	210	<3	<5	<5	7
DEC 14...	--	--	2300	72	<1	110	4	18	<5	18
JAN 05...	--	--	260	58	<1	150	<3	<5	<5	<5
MAR 12...	.310	.150	1100	60	<1	110	<3	16	10	10
APR 09...	.150	.100	780	52	<1	110	<3	<5	<5	<5
MAY 14...	.190	.090	680	58	<1	110	<3	<5	<5	<5
JUN 28...	.340	.210	2300	76	<2	140	<3	<5	<5	5
AUG 20...	.240	.240	590	53	<1	160	<3	<5	<5	<5
SEP 20...	.290	.340	900	54	<2	170	<3	8	<5	6

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV 09...	1400	<50	91	<.1	10	<3	360	<5	100
DEC 14...	3500	<50	160	<.1	21	<3	210	7	<100
JAN 05...	370	<50	47	<.1	<5	<3	300	<5	150
MAR 12...	2200	<100	120	<.1	22	5	260	10	<100
APR 09...	1200	<50	64	<.1	6	<3	220	<5	110
MAY 14...	1000	<50	90	<.1	8	<3	240	<5	150
JUN 28...	2300	<50	130	<.1	8	<3	250	<5	<100
AUG 20...	850	<50	94	<.1	8	<3	270	<5	<100
SEP 20...	1000	<50	79	<.1	<5	3	330	<5	<50

05559900 ILLINOIS RIVER AT WATER COMPANY AT PEORIA, IL

LOCATION.--Lat 40°43'30", long 89°32'58", in SE¼ sec.26, T.9 N., R.8 E., Peoria County, Hydrologic Unit 07130001, at the city of Peoria water intake, 3.0 mi upstream from Farm Creek and at mile 166.1.

DRAINAGE AREA.--13,900 mi^2, approximately.

PERIOD OF RECORD.--Water years 1970-72, 1978 to current year.

REMARKS.--Water-discharge records from Mackinaw River near Congerville (station 05567500) and Illinois River at Kingston Mines (station 05568500) were used to estimate mean daily discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
NOV 28...	1100	17002	17002	19500	577	6.9	6.0	5.0	8.4	29	K9000
JAN 17...	1000	17002	17002	11800	885	7.1	.0	7.3	10.9	10	K40
MAR 07...	1000	17002	17002	26700	742	7.3	2.0	3.9	13.1	17	K10
APR 05...	1200	17002	17002	40000	605	7.9	7.0	3.3	10.9	19	K20
MAY 08...	1200	17002	17002	30900	--	7.4	15.0	8.7	9.2	22	K20
JUN 13...	1200	17002	17002	25700	683	7.6	26.5	16	6.3	18	K40
JUL 17...	1200	17002	17002	8800	651	6.5	27.0	5.3	9.3	35	K20
AUG 22...	1200	17002	17002	7280	648	8.0	26.0	20	8.0	29	K20
SEP 18...	0930	17002	17002	4600	649	7.8	18.5	19	8.3	24	K20

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV 28...	270	89	.00	67	63	29	28	21	21	4.0	3.3
JAN 17...	370	130	.00	88	87	36	36	46	47	4.3	4.1
MAR 07...	320	130	.00	78	77	31	31	34	34	3.2	3.1
APR 05...	270	130	.00	64	64	27	27	24	24	2.5	2.3
MAY 08...	390	190	.00	89	88	42	42	32	32	3.2	2.9
JUN 13...	310	120	.00	75	74	31	30	30	30	3.6	3.3
JUL 17...	260	94	.00	60	59	27	27	43	43	4.3	3.9
AUG 22...	220	69	.00	54	52	24	23	51	52	4.9	4.6
SEP 18...	250	95	.00	59	57	25	25	50	51	5.2	5.0

K Results based on colony count outside the acceptable range (non-ideal colony count).

05559900 ILLINOIS RIVER AT WATER COMPANY AT PEORIA, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 28...	164	50	28	.3	280	32	2.6	.100	<.001	1.7	1.8
JAN 17...	236	100	66	.4	106	20	4.7	1.10	.001	.80	1.9
MAR 07...	186	85	56	.3	48	8	5.4	.550	.001	1.1	1.6
APR 05...	146	64	45	2.7	38	3	7.0	.160	.002	1.1	1.3
MAY 08...	202	78	49	.3	73	3	5.5	<.100	<.001	--	1.8
JUN 13...	108	69	41	.3	57	11	6.1	<.100	<.003	--	1.0
JUL 17...	165	77	55	.5	60	45	1.9	<.100	<.018	--	1.6
AUG 22...	156	70	60	.5	87	68	1.7	<.100	<.006	--	1.5
SEP 18...	151	73	56	.5	72	15	2.5	<.100	<.002	--	1.4

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 28...	4.4	.800	.230	3000	150	1	100	71	<2	<1
JAN 17...	6.6	.190	--	860	57	2	64	55	<1	<1
MAR 07...	7.0	.230	.100	890	79	2	51	42	<1	<.5
APR 05...	8.3	.160	.100	1000	<50	2	46	37	<1	<.5
MAY 08...	7.3	.240	.110	1500	63	2	62	48	<1	<.5
JUN 13...	7.1	.210	.130	1600	<50	3	75	59	<1	<.5
JUL 17...	3.5	.230	.120	1300	<50	4	58	44	<1	<.5
AUG 22...	3.2	.290	.150	1000	<50	3	62	47	<1	<.5
SEP 18...	3.9	.200	.120	1200	<50	4	63	47	<1	<.5

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV 28...	84	94	<3	<3	<5	<5	<5	<5	9	6
JAN 17...	170	160	4	<3	<5	<5	<5	<5	5	<5
MAR 07...	91	93	<3	<3	10	<5	<5	<5	<5	<5
APR 05...	69	74	<3	<3	<5	<5	<5	<5	<5	<5
MAY 08...	110	120	<3	<3	<5	<5	<5	<5	<5	<5
JUN 13...	130	120	<3	<3	24	<5	10	5	6	<5
JUL 17...	150	150	<3	<3	<5	<5	<5	<5	5	<5
AUG 22...	180	180	<3	<3	<5	<5	<5	<5	5	<5
SEP 18...	190	200	<3	<3	24	<5	<5	<5	<5	<5

05559900 ILLINOIS RIVER AT WATER COMPANY AT PEORIA, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
NOV 28...	4700	220	<50	<50	450	69	<.1	9	<5	<3
JAN 17...	680	<50	<50	<50	100	75	<.1	15	15	<3
MAR 07...	1300	<50	<50	<50	70	39	<.1	<5	<5	<3
APR 05...	1300	<50	<50	<50	45	10	<.1	<5	<5	<3
MAY 08...	2000	<50	<50	<50	94	15	<.1	<5	<5	<3
JUN 13...	1800	<50	<50	<50	100	6	<.1	10	10	<3
JUL 17...	1500	<50	<50	<50	110	<5	<.1	<5	<5	<3
AUG 22...	1300	<50	<50	<50	130	<5	<.1	9	<5	<3
SEP 18...	1700	<50	<50	<50	130	<5	<.1	9	<5	5

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 28...	<3	120	110	9	<5	<100	<100	<.01	<5	1
JAN 17...	4	300	290	<5	<5	<100	<50	<.01	<5	0
MAR 07...	<3	230	230	<5	<5	<100	<100	<.01	<5	0
APR 05...	<3	160	160	<5	<5	<50	<50	<.01	<5	1
MAY 08...	<3	220	220	6	<5	110	<100	--	--	0
JUN 13...	<3	250	250	<5	<5	<50	<50	<.01	<5	1
JUL 17...	<3	260	260	<5	<5	<50	<50	<.01	<5	1
AUG 22...	<3	300	290	<5	<5	100	<100	<.01	<5	1
SEP 16...	<3	300	290	<5	<5	<50	<50	<.01	<5	1

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05560500 FARM CREEK AT FARMDALE, IL

LOCATION.--Lat 40°40'00", long 89°30'15", in NE¼SE¼ sec.36, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, on left bank 200 ft downstream from bridge, 0.2 mi southeast of Farmdale, 0.2 mi upstream from Lake Erie & Western Railroad bridge, 0.3 mi downstream from Toledo, Peoria & Western Railroad bridge, and at mile 5.7.

DRAINAGE AREA.--27.4 mi².

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 530.12 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are poor. High flow regulated by Farmdale Dam, 1 mi upstream beginning in September 1950.

AVERAGE DISCHARGE.--36 years, 19.9 ft³/s, 9.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.58 ft Apr. 24, 1950, discharge not determined; no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 412 ft³/s Feb. 13, gage height, 3.15 ft; minimum daily, 0.63 ft³/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	4.9	29	5.4	22	21	38	61	39	6.3	2.0	1.0
2	1.2	32	27	5.2	49	19	35	51	33	6.1	1.9	1.2
3	1.1	30	24	5.0	191	17	49	52	30	7.3	1.9	1.1
4	1.3	25	30	7.0	145	15	87	50	27	6.3	1.8	1.2
5	1.7	21	33	10	80	14	76	44	26	6.4	1.8	1.2
6	2.1	21	42	20	53	13	55	40	23	6.4	1.7	1.1
7	2.3	21	32	14	30	12	44	36	21	4.7	1.7	1.2
8	2.5	20	28	10	15	11	44	33	29	4.5	1.5	6.6
9	2.8	14	25	7.5	13	10	61	33	76	4.5	1.5	3.4
10	3.6	11	22	6.8	278	9.6	50	29	38	4.1	1.5	2.9
11	4.1	15	193	6.4	141	9.5	42	30	30	14	1.4	2.9
12	14	16	104	6.0	152	9.4	45	24	28	4.7	1.4	1.5
13	10	14	66	5.6	292	10	42	22	25	4.1	1.3	1.4
14	9.2	11	47	5.2	89	12	42	19	21	3.7	1.3	1.7
15	7.0	8.0	35	4.9	64	126	48	19	22	12	1.3	1.9
16	6.0	4.1	29	4.7	75	312	65	17	20	4.2	1.3	1.2
17	6.6	4.0	25	4.4	89	107	52	17	17	3.5	1.6	1.2
18	6.6	3.7	21	4.2	184	78	42	16	16	3.1	3.6	1.3
19	7.4	6.9	18	4.1	116	165	36	21	14	2.8	1.7	.63
20	13	31	16	4.0	77	292	33	221	13	2.9	1.3	.89
21	21	19	14	4.0	62	119	41	86	12	2.8	1.4	1.1
22	35	12	12	73	53	92	282	60	13	2.5	2.4	1.3
23	13	152	11	126	45	74	108	52	30	2.4	1.6	3.5
24	10	46	10	141	37	64	79	43	15	10	1.4	2.0
25	9.8	34	9.0	98	32	203	63	78	10	8.8	1.3	1.4
26	12	27	8.0	73	27	105	54	94	9.3	6.1	1.3	1.3
27	13	76	7.4	112	24	86	46	51	8.5	4.2	1.4	1.2
28	12	79	6.8	70	22	73	38	102	7.5	2.8	1.5	1.3
29	12	46	6.2	42	22	56	62	65	7.1	2.4	1.3	1.2
30	13	34	5.8	26	---	47	135	51	6.6	2.3	1.3	1.2
31	15	---	5.6	15	---	42	---	44	---	2.1	1.1	---
TOTAL	269.6	838.6	941.8	920.4	2479	2223.5	1894	1561	666.0	158.0	49.5	51.02
MEAN	8.70	28.0	30.4	29.7	85.5	71.7	63.1	50.4	22.2	5.10	1.60	1.70
MAX	35	152	193	141	292	312	282	221	76	14	3.6	6.6
MIN	1.1	3.7	5.6	4.0	13	9.4	33	16	6.6	2.1	1.1	.63
CFSM	.32	1.02	1.11	1.08	3.12	2.62	2.30	1.84	.81	.19	.06	.06
IN.	.37	1.14	1.28	1.25	3.37	3.02	2.57	2.12	.90	.21	.07	.07

CAL YR 1983 TOTAL 9973.23 MEAN 27.3 MAX 413 MIN .40 CFSM .00 IN. 13.54
WTR YR 1984 TOTAL 12052.42 MEAN 32.9 MAX 312 MIN .63 CFSM 1.20 IN. 16.36

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05561500 FONDULAC CREEK NEAR EAST PEORIA, IL

LOCATION.--Lat 40°40'38", long 89°31'52", on line between SW¼ and [illegible]¼ sec.26, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, on left bank at upstream side of bridge on State Highway 8, 0.2 mi upstream from New York, Chicago and St. Louis Railroad bridge, 3 mi northeast of East Peoria, and at mile 0.4.

DRAINAGE AREA.--5.54 mi².

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 505.00 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Aug. 5, 1948, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. High flow regulated by Fondulac Dam, 0.5 mi upstream.

AVERAGE DISCHARGE.--36 years, 4.41 ft³/s, 10.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 560 ft³/s Mar. 3, 1979, gage height, 4.66 ft, from rating curve extended above 160 ft³/s; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134 ft³/s Mar. 19, gage height, 2.63 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1.9	.37	13	.96	2.6	10	4.1	.00	.00	.00
2	.00	5.3	1.7	.35	25	.88	5.0	5.5	3.1	.00	.00	.00
3	.00	3.7	2.1	.42	52	.80	12	8.6	2.4	.00	.00	.00
4	.00	.98	4.9	1.7	18	.74	17	8.5	2.0	.00	.00	.00
5	.00	.43	11	.92	9.5	.66	20	7.0	1.6	.00	.00	.00
6	.00	.28	10	1.1	5.8	.60	9.5	5.5	1.3	.00	.00	.00
7	.00	.43	7.2	1.1	4.0	.56	6.4	4.6	1.1	.00	.00	.00
8	.00	.17	3.0	.92	2.5	.50	6.4	3.9	6.2	.00	.01	.01
9	.00	.05	2.4	.85	1.7	.48	13	3.3	15	.00	.00	.00
10	.00	.63	2.8	.76	60	.45	7.7	3.1	8.4	.00	.00	.00
11	.00	1.7	67	.69	25	.43	6.4	4.6	1.9	2.7	.00	.00
12	.00	.98	19	.60	15	.42	9.0	3.2	1.4	.00	.00	.00
13	.00	.52	8.1	.56	75	.45	7.7	2.8	1.0	.00	.00	.00
14	.00	.35	9.0	.52	10	.56	7.7	2.1	.75	.00	.00	.00
15	.00	.28	3.7	.49	5.0	16	10	1.9	1.5	2.4	.00	.00
16	.00	.28	2.5	.47	6.0	73	16	1.7	1.0	.00	.00	.00
17	.00	.17	2.1	.46	7.7	27	10	1.5	.57	.00	.00	.00
18	.00	.10	1.8	.45	26	7.3	7.3	1.4	.31	.00	.00	.00
19	.00	1.2	1.6	.43	30	64	6.0	2.3	.05	.00	.00	.00
20	.00	13	1.3	.42	7.0	128	5.0	26	.03	.00	.00	.00
21	.00	2.8	1.1	.42	4.9	48	8.6	25	.00	.00	.00	.00
22	1.2	1.6	.96	1.0	3.9	13	31	7.5	.05	.00	.00	.00
23	.57	73	.84	45	3.1	8.6	40	5.9	3.3	.00	.00	.00
24	.06	7.2	.76	25	2.4	7.7	42	3.9	.46	.00	.00	.00
25	.01	3.0	.68	15	1.8	32	8.6	12	.00	1.1	.00	.00
26	.02	1.8	.60	10	1.5	27	6.9	23	.00	2.1	.00	.00
27	.00	33	.54	35	1.3	13	5.7	21	.00	.05	.00	.00
28	.00	28	.49	15	1.1	9.5	4.3	21	.00	.00	.00	.00
29	.00	7.0	.45	8.0	1.0	6.4	12	24	.00	.00	.00	.00
30	.00	3.0	.42	6.6	---	5.3	30	26	.00	.00	.00	.00
31	.00	---	.39	4.5	---	3.4	---	6.4	---	.00	.00	---
TOTAL	1.86	190.95	170.33	179.10	419.2	497.69	373.8	283.2	57.52	8.35	.01	.01
MEAN	.06	6.36	5.49	5.78	14.5	16.1	12.5	9.14	1.92	.27	.00	.00
MAX	1.2	73	67	45	75	128	42	26	15	2.7	.01	.01
MIN	.00	.00	.39	.35	1.0	.42	2.6	1.4	.00	.00	.00	.00
CFSM	.01	1.15	.99	1.04	2.62	2.91	2.26	1.65	.35	.05	.00	.00
IN.	.01	1.28	1.14	1.20	2.81	3.34	2.51	1.90	.39	.06	.00	.00

CAL YR 1983 TOTAL 1673.35 MEAN 4.58 MAX 100 MIN .00 CFSM .83 IN. 11.24
WTR YR 1984 TOTAL 2182.02 MEAN 5.96 MAX 128 MIN .00 CFSM 1.08 IN. 14.65

05562010 FARM CREEK AT CAMP STREET BRIDGE AT EAST PEORIA, IL

LOCATION.--Lat 40°40'16", long 89°34'48", in SW¼NW¼ sec.33, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, at bridge on State Highway 116, 0.2 mi downstream from Coal Creek and at mile 1.4.

DRAINAGE AREA.--61.3 mi².

PERIOD OF RECORD.--Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
NOV 28...	1200	17002	17002	631	7.1	5.0	23	7.8	30	K7700	—
JAN 12...	1300	17002	17002	939	7.3	.0	4.0	12.6	8	K60	—
MAR 07...	1100	17002	17002	930	7.3	1.0	3.5	12.8	8	140	420
APR 19...	1000	17002	17002	770	7.9	10.0	3.3	11.0	29	>20000	380
MAY 08...	1300	17002	17002	750	7.8	15.0	4.2	10.0	11	K70	430
JUN 13...	1000	17002	17002	771	7.7	24.0	5.1	8.4	14	K800	370
JUL 25...	1400	17002	17002	677	7.9	24.0	39	8.1	26	4900	290
AUG 22...	1300	17002	17002	755	8.2	26.0	4.9	13.6	10	1200	280
SEP 18...	1030	17002	17002	922	7.5	16.5	2.9	11.8	5	460	460

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 28...	67	—	29	—	20	—	3.9	—	48	27	308
JAN 12...	110	—	45	—	45	—	3.4	—	84	64	37
MAR 07...	99	97	44	42	41	43	2.8	2.8	83	66	30
APR 19...	88	88	40	40	23	23	1.9	1.9	75	46	38
MAY 08...	97	95	48	46	26	25	2.2	1.9	70	39	116
JUN 13...	87	86	38	38	34	34	2.8	2.7	61	43	30
JUL 25...	84	68	36	29	35	34	4.8	3.7	58	51	263
AUG 22...	52	50	39	38	59	59	4.4	4.3	86	71	21
SEP 18...	110	110	48	48	51	51	4.1	4.1	89	62	3

K Results based on colony count outside the acceptable range (non-ideal colony count).

05562010 FARM CREEK AT CAMP STREET BRIDGE AT EAST PEORIA, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)
NOV 28...	36	2.5	<.100	<.001	--	--	2900	--	100	--
JAN 12...	5	4.4	.450	<.001	--	--	310	--	100	--
MAR 07...	4	5.9	.300	<.001	.380	.200	270	60	91	82
APR 19...	18	5.4	.230	.004	.390	.240	170	<50	75	69
MAY 08...	16	5.6	<.100	<.002	.270	.160	1200	<50	92	74
JUN 13...	8	15	<.100	<.003	.340	.280	450	<50	100	97
JUL 25...	28	2.0	.200	.009	.270	.270	4400	<50	100	82
AUG 22...	16	.86	<.100	<.009	.080	.020	200	<50	87	81
SEP 18...	1	1.3	<.100	<.001	.060	.030	53	<50	100	120

DATE	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)
NOV 28...	<1	--	84	--	<3	--	5	--	<5	--
JAN 12...	<1	--	170	--	14	--	<5	--	<5	--
MAR 07...	<1	<.5	110	110	4	<3	11	<5	<5	<5
APR 19...	<1	<1	86	88	<3	<3	<5	<5	<5	<5
MAY 08...	<1	<.5	100	99	<3	<3	<5	<5	<5	<5
JUN 13...	<1	<.5	130	130	<3	<3	<5	<5	7	<5
JUL 25...	<1	<.5	150	140	4	3	6	<5	<5	<5
AUG 22...	<1	<.5	190	190	<3	<3	<5	<5	<5	<5
SEP 18...	<1	<.5	230	240	<3	<3	15	7	<5	<5

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
NOV 28...	9	--	4600	--	<50	--	440	--	<.1	9
JAN 12...	<5	--	830	--	<50	--	110	--	<.1	<5
MAR 07...	<5	<5	730	<50	<100	<50	100	80	<.1	7
APR 19...	9	<5	530	<50	<50	<50	50	31	<.1	<5
MAY 08...	<5	<5	2500	120	<50	<50	130	16	<.1	<5
JUN 13...	6	<5	710	<50	<50	<50	43	9	<.1	5
JUL 25...	11	<5	7200	<50	<50	<50	340	24	<.1	10
AUG 22...	<5	<5	490	<50	<50	<50	45	13	<.1	<5
SEP 18...	<5	<5	120	<50	<100	<50	23	19	<.1	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 28...	--	<3	--	120	--	9	--	<100	--	1
JAN 12...	--	<3	--	180	--	<5	--	<50	--	0
MAR 07...	<5	<3	<3	170	170	<5	<5	<50	<50	0
APR 19...	<5	<3	<3	150	150	<5	<5	<50	<50	1
MAY 08...	<5	<3	<3	160	150	<5	<5	120	<100	0
JUN 13...	8	<3	<3	170	170	<5	<5	<50	<50	1
JUL 25...	<5	<3	<3	150	130	6	<5	<100	<50	0
AUG 22...	<5	<3	<3	140	140	<5	<5	<100	110	0
SEP 18...	<5	14	8	180	180	<5	<5	<50	<50	0

05563525 KICKAPOO CREEK AT BARTONVILLE, IL

LOCATION.--Lat 40°39'18", long 89°38'52", in SE¼SW¼ sec.24, T.8 N., R.7 E., Peoria County, Hydrologic Unit 07130003, at bridge on U.S. Highway 24 at east edge of Bartonville, 3.8 mi downstream from Dry Run and at mile 2.0.

DRAINAGE AREA.--304 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1959, 1961-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DL 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
NOV 22...	1200	17002	17002	850	8.2	8.0	4.2	12.3	14	140	--
JAN 17...	1100	17002	17002	1010	7.3	10.0	2.1	12.2	6	100	--
MAR 12...	1100	17002	17002	916	7.4	.0	1.6	13.6	10	K25	460
APR 19...	1100	17002	17002	758	7.8	9.0	4.0	11.3	16	K60	410
MAY 10...	1200	17002	17002	812	7.7	14.0	2.6	10.2	12	200	450
JUN 14...	1200	17002	17002	802	7.7	25.0	14	7.3	16	K900	410
JUL 25...	1200	17002	17002	864	8.1	25.0	--	9.2	12	620	430
AUG 20...	1200	17002	17002	947	7.8	26.0	7.7	8.8	11	K60	480
SEP 19...	1100	17002	17002	1040	7.7	19.5	4.9	11.0	13	K60	--

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
NOV 22...	--	.00	100	--	48	--	34	--	4.7	--	254
JAN 17...	--	.00	130	--	55	--	32	--	2.9	--	315
MAR 12...	190	.00	110	110	48	47	26	25	2.4	2.2	274
APR 19...	160	.00	95	93	43	42	14	14	1.7	1.5	248
MAY 10...	--	.00	100	99	49	49	20	20	1.9	1.8	--
JUN 14...	160	.00	99	96	44	42	22	22	3.1	2.6	251
JUL 25...	180	.00	96	94	48	48	33	33	3.3	3.1	255
AUG 20...	200	.00	100	100	54	54	39	38	3.5	3.4	274
SEP 19...	--	.00	120	--	66	--	47	--	4.0	--	272

K Results based on colony count outside the acceptable range (non-ideal colony count).

05563525 KICKAPOO CREEK AT BARTONVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
NOV 22...	200	18	2	.69	<.100	<.003	--	--	200	--	94
JAN 17...	200	5	2	3.6	.280	<.001	--	--	110	--	91
MAR 12...	150	44	4	5.1	<.100	<.001	.080	.030	410	<50	81
APR 19...	120	85	5	6.2	<.100	<.001	.090	.030	660	<50	83
MAY 10...	140	41	4	5.2	.180	.002	.060	.020	460	<50	90
JUN 14...	120	59	7	12	<.100	<.003	.160	.060	2800	<50	100
JUL 25...	170	61	8	.99	<.100	<.007	.070	.020	870	<50	100
AUG 20...	230	51	44	.52	<.100	<.004	.080	.010	430	<50	100
SEP 19...	280	22	6	.23	<.100	<.002	.330	.010	230	--	100

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
NOV 22...	--	<1	--	150	--	<3	--	<5	--	<5	--
JAN 17...	--	<1	--	140	--	5	--	6	--	<5	--
MAR 12...	73	<1	<.5	88	86	<3	<3	<5	<5	<5	<5
APR 19...	70	<1	<1	83	80	<3	<3	6	<5	<5	<5
MAY 10...	79	<1	<.5	110	110	<3	<3	12	<5	<5	<5
JUN 14...	110	<1	<.5	120	120	4	<3	<5	<5	11	5
JUL 25...	110	<1	<1	150	150	4	<3	7	<5	<5	<5
AUG 20...	120	<1	<.5	160	160	<3	<3	<5	<5	<5	<5
SEP 19...	--	<1	--	200	--	<3	--	<5	--	<5	--

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05563525 KICKAPOO CREEK AT BARTONVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
NOV 22...	<5	--	490	--	<50	--	150	--	<.1	<5
JAN 17...	<5	--	170	--	<50	--	230	--	--	8
MAR 12...	<5	<5	840	<50	<50	<50	120	75	<.1	<5
APR 19...	<5	<5	1500	<50	<50	<50	110	19	<.1	<5
MAY 10...	<5	<5	1300	96	<50	<50	130	26	<.1	<5
JUN 14...	6	<5	3900	<50	<50	<50	200	14	<.1	7
JUL 25...	<5	<5	1200	<50	<50	<50	120	49	<.1	5
AUG 20...	<5	<5	720	<50	<50	<50	170	75	<.1	<5
SEP 19...	<5	--	470	--	<50	--	240	--	<.1	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 22...	--	<3	--	270	--	<5	--	<100	--	0
JAN 17...	--	4	--	300	--	6	--	<100	--	0
MAR 12...	<5	<3	<3	240	240	<5	<5	<50	<50	1
APR 19...	<5	<3	<3	200	200	<5	<5	<50	<50	1
MAY 10...	<5	<3	<3	230	230	<5	<5	<100	<50	1
JUN 14...	<5	<3	<3	270	260	9	<5	<50	<50	--
JUL 25...	<5	<3	<3	300	290	<5	<5	<50	<50	0
AUG 20...	<5	<3	<3	320	320	<5	<5	<100	<100	1
SEP 19...	--	<3	--	350	--	<5	--	<50	--	1

05563800 ILLINOIS RIVER AT PEKIN, IL

LOCATION.--Lat 40°34'23", long 89°39'17", in SW¼ sec.24, T.7 N., R.7 E., Tazewell County, Hydrologic Unit 07130003, at State Highway 9 bridge at Pokin, 5.1 mi upstream from Mackinaw River and at mile 152.9.

DRAINAGE AREA.--14,585 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1960-77 are published in Water-Resources Investigations 78-23 and 79-24 as site D 05.

REMARKS.--Water-discharge records from Illinois River at Kingston Mines (station 05568500) and Mackinaw River near Congerville (station 05567500) were used to estimate mean daily discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV 22...	1100	17002	17002	9220	761	7.9	10.0	3.9	10.0	23	K140
JAN 17...	1200	17002	17002	11900	838	7.1	.0	5.0	12.0	16	K40
MAR 12...	1000	17002	17002	22500	798	7.5	1.0	9.2	13.8	25	K20
APR 19...	1200	17002	17002	31500	753	7.7	12.0	11	10.4	36	K100
MAY 10...	1300	17002	17002	29100	731	7.6	14.0	2.5	9.5	24	K100
JUN 14...	1100	17002	17002	26500	--	7.4	26.5	17	6.8	18	K60
JUL 25...	1100	17002	17002	8420	646	7.9	28.0	29	5.3	24	500
AUG 20...	1300	17002	17002	8080	674	7.8	27.0	20	6.0	25	K40
SEP 19...	1000	17002	17002	4980	673	7.7	20.0	15	8.8	25	K1200

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV 22...	300	110	.00	74	71	31	30	53	52	6.2	5.9
JAN 17...	360	130	.00	87	85	36	35	49	49	4.5	4.3
MAR 12...	340	140	.00	82	80	34	33	39	40	3.7	3.4
APR 19...	330	130	.00	87	77	37	33	33	34	3.4	2.8
MAY 10...	400	200	.00	91	90	43	42	33	32	3.5	2.9
JUN 14...	330	140	.00	81	80	33	32	31	31	3.7	3.4
JUL 25...	240	0	.00	55	53	27	26	45	44	4.7	4.1
AUG 20...	230	69	.00	57	54	25	24	52	52	7.0	6.8
SEP 19...	250	91	.00	59	58	25	25	57	57	5.5	5.4

K Results based on colony count outside the acceptable range (non-ideal colony count).

05563800 ILLINOIS RIVER AT PEKIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 22...	194	88	67	.5	94	14	3.3	.330	.002	.97	1.3
JAN 17...	228	100	72	.4	62	7	4.4	1.20	.001	1.0	2.2
MAR 12...	200	90	62	.4	94	10	5.3	.460	.001	1.4	1.9
APR 19...	203	91	62	.3	196	24	4.7	.340	.004	1.7	2.0
MAY 10...	198	81	52	.3	150	35	5.2	<.100	<.001	--	2.2
JUN 14...	191	73	41	.3	29	5	5.9	<.100	<.002	--	1.1
JUL 25...	260	68	53	--	99	11	1.2	.300	.017	1.1	1.4
AUG 20...	165	77	61	.5	107	93	1.7	.120	.005	1.5	1.6
SEP 19...	157	73	62	.5	72	14	2.7	.130	.003	1.8	1.9

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 22...	4.6	.380	.250	1200	51	2	63	47	<1	<.5
JAN 17...	6.6	.290	--	990	64	2	67	56	<1	<1
MAR 12...	7.2	.290	.100	1600	84	2	88	44	<1	<.5
APR 19...	6.7	.430	.110	3400	<50	5	98	46	<1	<1
MAY 10...	7.4	.360	.130	2900	<50	2	77	49	<1	<.5
JUN 14...	7.0	.220	.140	2000	<50	3	84	64	<1	<1
JUL 25...	2.6	.260	.170	2500	<50	4	77	54	<1	<.5
AUG 20...	3.3	.330	.190	1000	<50	4	69	53	<1	<.5
SEP 19...	4.6	.340	.200	1200	<50	3	65	50	<1	<.5

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV 22...	200	190	<3	<3	7	<5	<5	<5	9	<5
JAN 17...	150	150	4	<3	10	<5	<5	<5	8	<5
MAR 12...	100	100	<3	<3	10	<5	6	<5	8	<5
APR 19...	120	120	<3	<3	12	<5	<5	<5	12	<5
MAY 10...	130	120	<3	<3	<5	<5	<5	<5	7	<5
JUN 14...	140	150	3	<3	12	9	10	7	8	<5
JUL 25...	170	160	<3	<3	<5	<5	<5	<5	7	<5
AUG 20...	190	190	<3	<3	<5	<5	<5	<5	5	<5
SEP 19...	220	220	<3	<3	<5	9	<5	<5	<5	<5

05563800 ILLINOIS RIVER AT PEKIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
NOV 22...	2200	<50	<50	<50	94	6	<.1	13	10	<3
JAN 17...	860	<50	<50	<50	150	100	<.1	17	17	4
MAR 12...	2400	<50	<50	<50	91	34	<.1	14	7	<3
APR 19...	5800	<50	<50	<50	370	9	<.1	13	<5	<3
MAY 10...	4300	110	<50	<50	160	10	<.1	<5	<5	<3
JUN 14...	2400	<50	<50	<50	120	6	<.1	7	10	4
JUL 25...	2800	<50	<50	<50	140	6	<.1	<5	<5	<3
AUG 20...	1500	<50	<50	<50	140	8	<.1	<5	<5	<3
SEP 19...	1600	52	<50	<50	140	<5	<.1	<5	<5	<3

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 22...	<3	260	340	<5	<5	<100	<100	.01	<5	0
JAN 17...	4	320	310	6	<5	<100	<100	<.01	<5	0
MAR 12...	<3	270	250	6	<5	<100	<50	<.01	<5	1
APR 19...	<3	240	230	10	<5	<100	<50	<.01	<5	1
MAY 10...	<3	240	230	8	<5	<100	<50	<.01	<5	1
JUN 14...	6	260	260	10	9	<50	<50	<.01	<5	1
JUL 25...	<3	270	270	<5	<5	<50	<50	<.01	<5	0
AUG 20...	<3	290	290	<5	<5	130	<50	<.01	<5	2
SEP 19...	<3	300	290	<5	<5	<50	<50	<.01	<5	1

05567500 MACKINAW RIVER NEAR CONGERVILLE, IL

LOCATION.--Lat 40°37'25", long 89°14'30", in NE¼SW¼ sec.17, T.25 N., R.1 W., Woodford County, Hydrologic Unit 07130004, on right bank at downstream side of bridge on U.S. Highway 150, 900 ft downstream from New York, Chicago and St. Louis Railroad bridge, 0.2 mi downstream from Walnut Creek, 2 mi northwest of Congerville, and at mile 38.7.

DRAINAGE AREA.--767 mi².

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1175: 1948. WSP 1308: 1945(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 607.01 ft National Geodetic Vertical Datum of 1929. Prior to July 11, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 518 ft³/s, 9.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,800 ft³/s Dec. 4, 1982, gage height, 20.21 ft, from floodmark; minimum, 0.2 ft³/s Oct. 21-24, Oct. 27 to Nov. 3, 1956, Oct. 6, 1957, Oct. 8-10, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 13	1945	*8290	*12.72	Apr. 22	1130	4570	9.39
Mar. 16	2330	6190	10.96	May 23	1845	7160	11.81
Mar. 21	1515	7670	12.23	May 27	0745	5860	10.66
Mar. 26	1100	6310	11.07				

Minimum discharge, 8.5 ft³/s Sept. 4, 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	26	500	200	140	550	1440	1540	1700	199	37	11
2	16	41	399	195	200	648	1240	1240	1420	195	34	11
3	14	78	341	190	300	573	1300	1120	1220	175	32	10
4	13	72	322	245	450	500	1810	1080	1100	147	30	10
5	13	67	309	280	700	435	1690	1000	987	142	36	8.5
6	12	53	453	250	560	390	1340	943	899	138	34	9.0
7	13	47	550	240	360	360	1170	869	836	134	32	9.6
8	12	40	516	210	300	330	1350	771	908	130	30	10
9	11	36	432	200	250	300	1320	712	1220	126	27	13
10	11	44	340	190	759	280	1170	682	978	122	28	12
11	14	42	2500	185	2150	260	1150	663	795	132	24	12
12	18	45	2200	180	3520	270	1080	608	700	114	24	11
13	21	46	1800	180	6960	300	996	573	680	109	24	10
14	24	45	1500	175	7060	349	1040	510	641	92	19	13
15	25	44	1150	170	4700	759	1130	468	600	100	18	15
16	24	41	900	170	2310	5530	1090	456	594	92	16	12
17	24	40	720	168	2070	5680	996	462	570	77	17	11
18	22	36	600	165	1980	3440	899	500	530	66	22	10
19	24	39	450	162	2710	2670	880	1000	471	58	21	9.6
20	26	52	380	160	2170	6010	860	2240	414	54	18	9.6
21	31	93	350	160	1690	7540	840	3860	417	52	17	10
22	52	96	320	160	1410	5540	3780	5230	405	49	16	10
23	68	546	300	158	1230	3140	3790	6700	390	44	17	12
24	77	704	280	155	1080	2520	2680	5100	370	63	15	13
25	70	453	260	165	925	4130	2090	3410	350	90	15	12
26	54	330	250	175	811	6130	1680	5380	343	108	14	13
27	47	341	240	185	731	5240	1430	5550	313	88	14	13
28	36	1120	230	200	630	3760	1180	4740	280	70	14	13
29	30	1060	220	180	432	2790	1920	4190	238	54	13	14
30	28	708	215	165	---	2040	2100	2720	220	44	13	14
31	27	---	205	150	---	1660	---	2070	---	39	12	---
TOTAL	874	6385	19232	5768	48588	74124	45441	66387	20589	3103	684	341.3
MEAN	28.2	213	620	186	1675	2391	1515	2142	686	100	22.1	11.4
MAX	77	1120	2500	280	7060	7540	3790	6700	1700	199	37	15
MIN	11	26	205	150	140	260	840	456	220	39	12	8.5
CFSM	.04	.28	.81	.24	2.18	3.12	1.98	2.79	.89	.13	.03	.01
IN.	.04	.31	.93	.28	2.36	3.60	2.20	3.22	.00	.15	.03	.02

CAL YR 1983 TOTAL 236880 MEAN 649 MAX 7860 MIN 10 CFSM .85 IN. 11.49
WTR YR 1984 TOTAL 291516.3 MEAN 796 MAX 7540 MIN 8.5 CFSM 1.04 IN. 14.14

05567510 MACKINAW RIVER BELOW CONGERVILLE, IL

LOCATION.--Lat 40°35'12", long 89°16'42", in NW1/4NE1/4 sec.36, T.25 N., R.2 W., Tazewell County, Hydrologic Unit 07130004, at Rocky Ford bridge, 0.5 mi upstream from Rock Creek, 0.8 mi upstream from Hollands Creek, 4.5 mi southwest of Congerville, and at mile 53.7.

DRAINAGE AREA.--776 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: July 1983 to current year.

REMARKS.--Water-discharge records from Mackinaw River near Congerville (station 05567500) were used for this station. Suspended-sediment samples were collected by a local observer every other day with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,100 mg/L Apr. 22, 1984; minimum daily mean, 2 mg/L Jan. 23, 31, Feb. 2, 1984.
SEDIMENT LOADS: Maximum daily, 29,500 tons Mar. 16, 1984; minimum daily, 0.81 ton Jan. 31, 1984.

EXTREMES FOR CURRENT PERIOD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,100 mg/L Apr. 22; minimum daily mean, 2 mg/L Jan. 23, 31, Feb. 2.
SEDIMENT LOADS: Maximum daily, 29,500 tons Mar. 16; minimum daily, 0.81 ton Jan. 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
03...	1815	81700	17003	13	--	--	21.0	--	--	--	--	--
NOV												
21...	1200	17002	17002	102	610	7.4	8.5	4.2	8.1	17	K9900	--
JAN												
12...	1100	17002	17002	E180	748	7.2	.0	2.3	11.7	6	K50	--
MAR												
07...	1200	17002	17002	E360	677	7.4	2.0	1.3	13.4	2	160	350
19...	1610	81700	17003	2300	--	--	3.0	--	--	--	--	--
APR												
05...	1000	17002	17002	1720	583	8.1	6.0	8.0	11.2	8	K380	310
MAY												
08...	1000	17002	17002	779	647	7.6	13.0	2.1	9.9	10	K100	390
17...	1515	81700	17003	450	--	--	--	--	--	--	--	--
JUN												
13...	1400	17002	17002	E640	663	7.6	23.5	10	7.6	14	600	340
28...	1350	81700	17003	254	--	--	24.0	--	--	--	--	--
JUL												
17...	1000	17002	17002	86	643	8.0	25.0	2.1	8.3	8	K120	320
AUG												
22...	1000	17002	17002	18	610	7.7	23.0	19	7.8	22	K130	300
SEP												
18...	1130	17002	17002	11	631	7.6	16.0	4.0	9.7	24	K20	350
19...	1050	81700	17003	10	--	--	17.0	--	--	--	--	--

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05567510 MACKINAW RIVER BELOW CONGERVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT 03...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	--	.00	87	--	39	--	36	--	4.2	--	253
JAN 12...	--	.00	94	--	41	--	14	--	1.3	--	291
MAR 07...	130	.00	82	81	36	35	9.9	10	1.1	1.0	216
19...	--	--	--	--	--	--	--	--	--	--	--
APR 05...	140	.00	74	71	33	32	7.1	6.9	1.3	1.1	172
MAY 08...	180	.00	91	87	44	42	8.4	7.3	1.1	.99	209
17...	--	--	--	--	--	--	--	--	--	--	--
JUN 13...	130	.00	81	79	35	34	8.8	8.6	1.6	1.1	209
28...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	74	.00	74	72	35	34	12	11	1.6	1.4	246
AUG 22...	49	.00	65	61	37	36	15	14	2.2	1.9	252
SEP 18...	87	.00	78	74	43	41	16	15	2.5	2.2	267
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)
OCT 03...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	60	23	4	3.4	.100	<.001	--	--	260	--	88
JAN 12...	64	4	1	12	.140	<.001	--	--	96	--	72
MAR 07...	55	10	2	12	<.100	<.001	.050	.030	200	98	60
19...	--	--	--	--	--	--	--	--	--	--	--
APR 05...	46	113	8	13	<.100	<.002	.110	.050	1400	81	68
MAY 08...	50	41	5	13	.180	.002	.050	.020	550	<50	69
17...	--	--	--	--	--	--	--	--	--	--	--
JUN 13...	48	109	15	14	<.100	<.002	.100	.040	2300	<50	98
28...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	52	37	6	5.6	<.100	<.006	.070	.030	430	<50	80
AUG 22...	51	95	82	.66	<.100	<.003	.110	.010	840	<50	100
SEP 18...	51	92	12	1.1	<.100	<.001	.050	.020	950	<50	100
19...	--	--	--	--	--	--	--	--	--	--	--

05567510 MACKINAW RIVER BELOW CONGERVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
NOV											
21...	--	<1	--	94	--	<3	--	<5	--	<5	--
JAN											
12...	--	<1	--	54	--	<3	--	<5	--	<5	--
MAR											
07...	56	<1	<.5	<50	<50	<3	<3	6	<5	<5	<5
19...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	53	<1	<.5	<50	<50	<3	<3	<5	<5	<5	<5
MAY											
08...	55	<1	<.5	94	<50	<3	<3	<5	<5	<5	<5
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	73	<1	<.5	69	59	3	<3	6	<5	8	<5
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
17...	72	<1	<1.0	65	61	<3	<3	<5	<5	<5	<5
AUG											
22...	85	<1	<.5	73	69	<3	<3	<5	6	<5	7
SEP											
18...	86	<1	<.5	79	72	<3	<3	9	<5	<5	<5
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
NOV											
21...	<5	--	540	--	<50	--	85	--	<.1	<5	--
JAN											
12...	<5	--	120	--	<50	--	45	--	<.1	<5	--
MAR											
07...	<5	<5	230	<50	<50	<50	37	20	<.1	<5	<5
19...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	<5	<5	1600	<50	<50	<50	76	<5	<.1	<5	<5
MAY											
08...	<5	<5	830	59	<50	<50	44	11	<.1	<5	<5
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	<5	<5	2400	<50	<50	<50	96	6	<.1	9	<5
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
17...	<5	<5	500	<50	<50	<50	47	11	<.1	<5	<5
AUG											
22...	<5	<5	1100	<50	<50	<50	280	55	<.1	<5	<5
SEP											
18...	<5	<5	1300	<50	<50	<50	250	32	<.1	<5	<5
19...	--	--	--	--	--	--	--	--	--	--	--

05567510 MACKINAW RIVER BELOW CONGERVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (010[illegible])	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
03...	--	--	--	--	--	--	--	--	95	3.3	95
NOV											
21...	<3	--	180	--	<5	--	<100	--	--	--	--
JAN											
12...	<3	--	160	--	<5	--	<50	--	--	--	--
MAR											
07...	<3	<3	130	130	<5	<5	<100	<50	--	--	--
19...	--	--	--	--	--	--	--	--	204	1270	87
APR											
05...	<3	<3	110	110	<5	<5	<50	<50	--	--	--
MAY											
08...	<3	<3	130	120	<5	5	<100	<100	--	--	--
17...	--	--	--	--	--	--	--	--	27	33	85
JUN											
13...	<3	<3	150	140	6	<5	<100	<50	--	--	--
28...	--	--	--	--	--	--	--	--	58	40	92
JUL											
17...	<3	<3	150	150	<5	<5	<50	<50	--	--	--
AUG											
22...	<3	3	150	150	<5	<5	<100	<100	--	--	--
SEP											
18...	4	<3	170	160	<5	<5	<100	<50	--	--	--
19...	--	--	--	--	--	--	--	--	47	1.3	94

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	17	50	2.3	26	30	2.1	500	58	78
2	16	55	2.4	41	28	3.1	399	25	27
3	14	60	2.3	78	24	5.1	341	19	17
4	13	58	2.0	72	18	3.5	322	17	15
5	13	55	1.9	67	18	3.3	309	27	23
6	12	52	1.7	53	17	2.4	453	41	50
7	13	49	1.7	47	16	2.0	550	50	74
8	12	44	1.4	40	15	1.6	516	52	72
9	11	39	1.2	36	30	2.9	432	38	44
10	11	32	.95	44	25	3.0	340	54	80
11	14	40	1.5	42	20	2.3	2500	1780	12400
12	18	50	2.4	45	12	1.5	2200	738	4480
13	21	45	2.6	46	8	.99	1800	320	1560
14	24	39	2.5	45	8	.97	1500	150	607
15	25	33	2.2	44	9	1.1	1150	100	310
16	24	34	2.2	41	9	1.0	900	80	194
17	24	35	2.3	40	10	1.1	720	70	136
18	22	35	2.1	36	14	1.4	600	60	97
19	24	36	2.3	39	18	1.9	450	50	61
20	26	38	2.7	52	18	2.5	380	44	45
21	31	40	3.3	93	29	7.3	350	42	40
22	52	42	5.9	96	14	3.6	320	38	33
23	68	43	7.9	546	310	454	300	34	28
24	77	40	8.3	704	129	256	280	30	23
25	70	38	7.2	453	86	105	260	27	19
26	54	32	4.7	330	73	65	250	23	16
27	47	25	3.2	341	79	83	240	20	13
28	36	30	2.9	1120	468	1420	230	17	11
29	30	32	2.6	1060	176	517	220	15	8.9
30	28	33	2.5	700	99	189	215	13	7.5
31	27	32	2.3	---	---	---	205	11	6.1
TOTAL	874	---	91.45	6385	---	3143.66	19232	---	20575.5

05567510 MACKINAW RIVER BELOW CONGERVILLE, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

AY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	200	10	5.4	140	3	1.1	550	73	108
2	195	9	4.7	200	2	1.1	648	64	112
3	190	8	4.1	300	62	50	573	50	77
4	245	7	4.6	450	90	109	500	42	57
5	280	7	5.3	700	85	161	435	40	47
6	250	7	4.7	560	80	121	390	40	42
7	240	6	3.9	360	70	68	360	45	44
8	210	6	3.4	300	52	42	330	48	43
9	200	6	3.2	250	40	27	300	46	37
10	190	6	3.1	759	36	74	280	50	30
11	185	6	3.0	2150	165	865	260	38	27
12	180	5	2.4	3520	377	3800	270	40	29
13	180	5	2.4	6960	1940	34300	300	38	31
14	175	5	2.4	7060	602	11700	349	35	33
15	170	5	2.3	4700	385	4890	759	401	2750
16	170	5	2.3	2310	280	1750	5530	2060	29500
17	166	4	1.8	2070	220	1230	5680	625	9710
18	165	4	1.8	1980	226	1210	3440	320	2970
19	162	4	1.7	2710	484	3580	2670	424	3760
20	160	4	1.7	2170	142	832	6010	1070	16300
21	160	4	1.7	1690	107	488	7540	1080	21800
22	160	3	1.3	1410	93	354	5540	331	5250
23	158	2	.85	1230	87	289	3140	190	1610
24	155	3	1.3	1080	85	248	2520	125	850
25	165	4	1.8	925	81	202	4130	1490	18600
26	175	3	1.4	811	77	169	6130	1250	20800
27	185	4	2.0	731	72	142	5240	324	4710
28	200	4	2.2	630	70	119	3760	195	1980
29	180	5	2.4	432	72	84	2790	150	1130
30	165	3	1.3	---	---	---	2040	116	639
31	150	2	.81	---	---	---	1660	98	439
TAL	5768	---	81.26	48588	---	66906.2	74124	---	143515
		APRIL			MAY			JUNE	
1	1440	87	338	1540	357	1480	1700	145	666
2	1240	91	305	1240	135	452	1420	159	610
3	1300	100	351	1120	96	290	1220	151	497
4	1810	103	503	1080	70	204	1100	130	386
5	1690	98	447	1000	68	184	987	113	301
6	1340	82	297	943	69	176	899	99	240
7	1170	72	227	869	65	153	836	85	192
8	1350	68	248	771	60	125	908	78	191
9	1320	69	246	712	55	106	1220	330	1110
10	1170	66	208	682	50	92	978	292	793
11	1150	69	214	663	31	55	795	161	346
12	1080	73	213	608	33	54	700	127	240
13	996	69	186	573	47	73	680	115	211
14	1040	61	171	510	49	67	641	112	194
15	1130	52	159	468	42	53	600	116	188
16	1090	42	124	456	42	52	594	82	132
17	996	43	116	462	36	45	570	76	117
18	899	43	104	500	29	39	530	81	116
19	880	41	97	1000	25	67	471	86	109
20	860	37	86	2240	904	6100	414	80	89
21	840	35	79	3860	897	9180	417	70	79
22	3780	2100	25200	5230	1420	22400	405	60	66
23	3790	1130	12100	6700	899	16600	390	1090	1200
24	2680	383	2770	5100	776	11500	370	1130	1170
25	2090	175	988	3410	296	2760	350	132	125
26	1680	123	558	5380	871	13100	343	92	85
27	1430	108	417	5550	525	7870	313	76	64
28	1180	106	338	4740	412	5270	280	87	66
29	1920	101	528	4190	330	3730	238	84	54
30	2100	1550	6150	2720	200	1470	220	68	40
31	---	---	---	2070	140	782	---	---	---
TOTAL	45441	---	53768	66387	---	104529	20589	---	9677

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05567510 MACKINAW RIVER BELOW CONGERVILLE, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	199	64	34	37	55	5.5	11	56	1.7
2	195	72	38	34	54	5.0	11	54	1.6
3	175	83	39	32	52	4.5	10	52	1.4
4	147	92	37	30	49	4.0	10	51	1.4
5	142	102	39	36	47	4.6	8.5	50	1.1
6	138	96	36	34	46	4.2	9.0	49	1.2
7	134	75	27	32	45	3.9	9.6	48	1.2
8	130	91	32	30	44	3.6	10	47	1.3
9	126	105	36	27	46	3.4	13	47	1.6
10	122	99	33	28	48	3.6	12	50	1.6
11	132	76	27	24	50	3.2	12	52	1.7
12	114	57	18	24	54	3.5	11	54	1.6
13	109	45	13	24	51	3.3	10	56	1.5
14	92	51	13	19	48	2.5	13	54	1.9
15	100	63	17	18	48	2.3	15	52	2.1
16	92	65	16	16	49	2.1	12	50	1.6
17	77	59	12	17	49	2.2	11	48	1.4
18	66	62	11	22	50	3.0	10	48	1.3
19	58	65	10	21	50	2.8	9.6	47	1.2
20	54	58	8.5	18	51	2.5	9.6	45	1.2
21	52	54	7.6	17	51	2.3	10	43	1.2
22	49	53	7.0	16	52	2.2	10	41	1.1
23	44	51	6.1	17	52	2.4	12	39	1.3
24	63	65	13	16	53	2.3	13	37	1.3
25	90	405	108	15	53	2.1	12	35	1.1
26	108	159	46	14	54	2.0	13	33	1.2
27	88	115	27	14	54	2.0	13	31	1.1
28	70	90	17	14	55	2.1	13	29	1.0
29	54	65	9.5	13	55	1.9	14	28	1.1
30	44	60	7.1	13	56	2.0	14	31	1.2
31	39	55	5.8	12	57	1.8	---	---	---
TOTAL	3103	---	750.6	684	---	92.8	341.3	---	41.2
YEAR	291516.3		403171.67						

05568005 MACKINAW RIVER BELOW GREEN VALLEY, IL

LOCATION.--Lat 40°26'51", long 89°41'28", in NE¼ sec.17, T.23 N., R.5 W., Tazewell County, Hydrologic Unit 07130004, at county road bridge, 1.8 mi upstream from small left-bank tributary, 3.8 mi northwest of Green Valley, and at mile 10.1.

DRAINAGE AREA.--1,092 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

REMARKS.--Water discharges were determined from Mackinaw River near Green Valley (station 05568000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV 22...	1000	17002	17002	122	756	8.2	9.0	8.5	9.9	12	540
JAN 17...	1300	17002	17002	348	750	7.5	.0	2.3	12.6	4	K5
MAR 12...	1300	17002	17002	802	712	7.3	1.0	1.1	13.1	5	K5
APR 19...	1400	17002	17002	1740	--	--	--	4.2	--	13	K150
MAY 10...	1000	17002	17002	1420	673	7.6	14.0	2.7	9.8	10	K40
JUN 14...	0900	17002	17002	1050	676	7.6	24.0	12	7.0	14	K150
JUL 25...	1000	17002	17002	--	636	7.9	23.0	34	7.8	26	K1200
AUG 20...	1000	17002	17002	--	649	7.7	22.0	11	9.2	11	K30
SEP 19...	0900	17002	17002	--	697	7.6	16.0	6.5	8.9	16	470

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV 22...	--	--	.00	86	--	39	--	32	--	3.1	--
JAN 17...	--	--	.00	92	--	40	--	15	--	1.7	--
MAR 12...	370	130	.00	86	85	38	38	12	12	1.4	1.3
APR 19...	350	130	.00	81	79	37	36	7.0	7.1	1.0	.92
MAY 10...	410	180	.00	92	91	45	44	11	11	1.1	.98
JUN 14...	350	120	.00	83	82	37	35	11	10	2.0	1.5
JUL 25...	310	150	.00	80	68	39	35	17	16	2.6	1.9
AUG 20...	300	5	.00	73	65	36	33	19	17	2.1	1.8
SEP 19...	360	62	.00	86	81	41	39	26	25	2.4	2.2

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05568005 MACKINAW RIVER BELOW GREEN VALLEY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
NOV 22...	297	46	12	2	1.9	.130	.004	--	--	130	--
JAN 17...	275	60	13	2	3.9	.100	<.001	--	--	160	--
MAR 12...	238	55	38	2	9.8	<.100	<.001	.080	.020	390	64
APR 19...	214	53	49	4	12	<.100	--	.070	.040	510	77
MAY 10...	229	47	75	8	11	<.100	<.001	.080	.040	740	<50
JUN 14...	226	50	141	18	13	<.100	<.002	.160	.060	2700	<50
JUL 25...	168	42	208	15	1.8	<.100	<.004	.130	.010	2400	<50
AUG 20...	294	35	43	36	.62	<.100	<.002	.060	.010	350	<50
SEP 19...	302	38	40	8	.93	<.100	<.001	.080	.010	420	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
NOV 22...	96	--	<1	--	91	--	<3	--	<5	--	<5
JAN 17...	78	--	<1	--	62	--	3	--	<5	--	<5
MAR 12...	69	64	<1	<.5	<50	<50	<3	<3	<5	<5	<5
APR 19...	66	60	<1	<.5	<50	<50	<3	<3	6	<5	<5
MAY 10...	75	65	<1	<.5	57	56	4	<3	<5	<5	<5
JUN 14...	100	81	<1	<.5	68	71	4	<3	8	<5	13
JUL 25...	100	87	<1	<1	75	69	3	<3	<5	<5	<5
AUG 20...	100	92	<1	<.5	72	65	<3	<3	<5	<5	<5
SEP 19...	100	100	<1	<.5	92	88	<3	<3	10	<5	<5

05568005 MACKINAW RIVER BELOW GREEN VALLEY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
NOV 22...	--	<5	--	470	--	<50	--	190	--	<.1
JAN 17...	--	<5	--	160	--	<50	--	100	--	<.1
MAR 12...	<5	<5	<5	640	<50	<50	<50	65	35	<.1
APR 19...	<5	<5	<5	790	<50	<50	<50	45	7	<.1
MAY 10...	<5	<5	<5	1200	120	<50	<50	59	11	<.1
JUN 14...	5	6	<5	3000	<50	<100	<50	140	7	<.1
JUL 25...	<5	<5	<5	3300	<50	<50	<50	380	44	<.1
AUG 20...	<5	<5	<5	630	<50	<50	<50	220	85	<.1
SEP 19...	<5	<5	<5	820	<50	<50	<50	250	87	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 22...	<5	--	<3	--	170	--	<5	--	<50	--
JAN 17...	12	--	5	--	160	--	5	--	<50	--
MAR 12...	<5	<5	<3	<3	140	140	<5	<5	<50	<50
APR 19...	<5	<5	<3	<3	130	120	<5	<5	<100	<100
MAY 10...	<5	<5	<3	<3	130	130	<5	<5	110	<100
JUN 14...	16	<5	3	<3	150	150	9	<5	<50	<50
JUL 25...	<5	<5	<3	<3	170	150	<5	<5	<50	<50
AUG 20...	<5	<5	<3	<3	170	150	<5	<5	--	--
SEP 19...	<5	<5	7	5	180	180	<5	<5	<50	<50

05568500 ILLINOIS RIVER AT KINGSTON MINES, IL

LOCATION.--Lat 40°33'10", long 89°46'40", in SE¼SE¼ sec.26, T.7 N., R.6 E., Peoria County, Hydrologic Unit 07130003, on right bank at Kingston Mines, 2.3 mi downstream from Mackinaw River and at mile 144.4.

DRAINAGE AREA.--15,819 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1558: 1957. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 428.00 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1940, nonrecording gage at same site at datum 1.65 ft higher. Oct. 1, 1940, to Mar. 31, 1942, nonrecording gage at present site and datum. Auxiliary water-stage recorder below mouth of Copperas Creek, 8.4 mi downstream. Prior to Oct. 30, 1967, auxiliary water-stage recorder at mouth of Copperas Creek, 7.9 mi downstream.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation at low flow by navigation dams at Peoria and La Grange. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal. U.S. Army Corps of Engineers gage-height telemeter at auxiliary station.

AVERAGE DISCHARGE.--45 years, 15,157 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 88,800 ft³/s Dec. 7, 1982; maximum gage height, 26.02 ft May 25, 1943; minimum daily discharge, 1,700 ft³/s Aug. 29-31, Sept. 1, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60,000 ft³/s Feb. 17; maximum gage height, 19.60 ft Mar. 28; minimum daily discharge, 1,700 ft³/s Aug. 29-31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9930	9440	27100	17000	10000	37100	49900	37500	45000	16500	7670	1700
2	7960	9240	27100	17000	10000	36000	49000	38000	44400	11500	7600	1870
3	7150	9210	26800	16000	10000	32300	46700	37400	43300	8260	7390	5980
4	5610	9260	25900	16000	10000	31900	46700	37600	41400	8160	7250	7820
5	6700	9140	24600	16000	10000	31000	45000	34800	39600	8930	7430	9100
6	7270	8880	24200	16000	10000	29900	43200	34400	36700	9770	7580	7980
7	7190	8540	22400	15000	10000	29300	42600	33000	32300	9560	7510	7460
8	6970	7370	22300	15000	10000	27100	43700	34300	33600	9360	7530	7380
9	6850	6760	22300	15000	10000	27600	42100	30700	33100	9020	7660	7570
10	6790	5900	22100	14000	10000	27500	40600	30700	30600	9390	7680	7600
11	7030	6590	23000	14000	10400	25200	38300	30900	31300	9580	7910	7680
12	7150	6010	23800	14000	13200	23500	35800	31000	30000	10500	7780	6930
13	7020	5410	26400	14000	18400	23300	32300	24600	28500	10000	8310	4900
14	7010	5910	29400	13000	36400	22200	33200	25000	28000	9350	8410	5200
15	6390	7090	32100	13000	56700	21800	34700	20300	27700	9320	8560	6030
16	5400	7760	35400	13000	58200	26800	34400	22800	27100	9860	8490	4930
17	6010	7520	36100	13000	59800	29400	33300	25200	24800	9610	8540	4800
18	6450	7790	34700	13000	58700	34300	32200	20100	24000	9590	8460	5000
19	6650	7880	34600	12000	56400	34900	33400	20700	22900	9250	8460	5150
20	6150	8030	27800	12000	56500	43400	32700	17400	23000	8810	8360	5500
21	7140	8550	24000	12000	56700	46700	34400	18700	21800	8830	8140	5990
22	7800	9610	23000	12000	54900	51500	35300	20000	19600	8920	7900	3320
23	8400	12000	22000	11000	52800	55300	32800	21600	19800	8880	7340	3900
24	11000	14700	21000	11000	52800	57000	34900	21400	21200	9090	7450	6890
25	13700	19900	21000	11000	51500	58000	35000	26700	21100	8780	6990	7640
26	13600	22700	20000	11000	46600	58500	37600	32100	19200	8620	6940	4990
27	13500	23400	19000	11000	46500	57900	36000	36700	19400	8710	7050	11100
28	11800	22200	19000	11000	43500	58600	37100	38200	19500	8780	6260	10100
29	8180	23300	18000	10000	38300	57600	37500	45600	19000	8720	1700	8530
30	7710	25600	18000	10000	---	56600	36200	42900	17000	8470	1700	8500
31	7560	---	18000	10000	---	53700	---	44100	---	8050	1700	---
TOTAL	248070	335690	771100	408000	968300	1205900	1146600	934400	844900	292170	221750	191540
MEAN	8002	11190	24870	13160	33390	38900	38220	30140	28160	9425	7153	6385
MAX	13700	25600	36100	17000	59800	58600	49900	45600	45000	16500	8560	11100
MIN	5400	5410	18000	10000	10000	21800	32200	17400	17000	8050	1700	1700

CAL YR 1983 TOTAL 7619930 MEAN 20880 MAX 71600 MIN 5400
WTR YR 1984 TOTAL 7568420 MEAN 20680 MAX 59800 MIN 1700

05568775 SPOON RIVER NEAR WYOMING, IL

LOCATION.--Lat 41°03'47", long 89°47'43", in SE¼SE¼ sec.34, T.13 N., R.6 E., Stark County, Hydrologic Unit 07130005, at bridge on State Highway 91, 0.7 mi west of Wyoming, 6.0 mi upstream from Camp Run, and at mile 136.1.

DRAINAGE AREA.--197 mi^2.

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972, 1974-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DJ C6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
NOV											
07...	1200	17002	17002	1180	8.5	9.0	6.6	9.0	21	500	--
30...	1100	17002	17002	767	8.3	1.0	6.7	13.9	12	K180	--
FEB											
09...	1100	17002	17002	972	7.2	.0	1.3	11.9	6	K45	450
MAR											
22...	1000	17002	17002	676	7.8	3.0	11	12.3	--	2000	350
APR											
12...	1100	17002	17002	749	7.5	9.0	2.2	10.3	9	140	400
MAY											
23...	1200	17002	17002	737	7.6	15.5	5.8	8.9	23	K7400	--
JUN											
26...	1100	17002	17002	814	7.7	21.5	2.1	7.9	30	580	380
AUG											
02...	1100	17002	17002	941	7.9	23.5	6.9	8.5	12	K240	410
30...	1100	17002	17002	1120	7.9	24.0	8.2	7.2	31	K440	420

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)
NOV											
07...	--	.00	110	--	52	--	98	--	7.5	--	294
30...	--	.00	94	--	39	--	25	--	3.1	--	228
FEB											
09...	170	.00	110	110	46	46	52	51	3.1	3.0	284
MAR											
22...	150	.00	85	82	37	35	12	12	2.1	1.8	202
APR											
12...	180	--	95	92	43	42	16	16	1.6	1.3	221
MAY											
23...	--	.00	87	--	39	--	19	--	1.9	--	234
JUN											
26...	120	.00	86	88	40	40	23	24	2.0	1.6	261
AUG											
02...	110	.00	94	92	45	43	56	57	3.7	3.6	294
30...	160	.00	83	82	52	52	100	100	5.9	5.6	257

K Results based on colony count outside the acceptable range (non-ideal colony count).

05568775 SPOON RIVER NEAR WYOMING, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
NOV											
07...	150	60	12	1.2	<.100	<.005	--	--	550	--	100
30...	82	44	6	11	.280	.005	--	--	530	--	100
FEB											
09...	96	7	2	7.4	.650	<.001	.290	.260	210	<50	100
MAR											
22...	62	135	25	13	.130	<.001	.300	.100	2000	88	100
APR											
12...	64	72	10	12	<.100	<.001	.130	.060	910	91	100
MAY											
23...	60	175	13	11	<.100	<.001	.230	.120	1500	--	100
JUN											
26...	69	78	62	13	<.100	<.002	.200	.110	1900	<50	100
AUG											
02...	91	42	8	4.2	<.100	<.004	.190	.130	770	<50	100
30...	160	62	43	<.10	<.100	<.004	.180	.010	640	<50	200

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
NOV										
07...	--	<1	--	270	--	<3	--	<5	--	<5
30...	--	<1	--	78	--	<3	--	<5	--	<5
FEB										
09...	99	<2	<1	110	110	<3	<3	7	6	<5
MAR										
22...	79	<1	<1	<50	<50	<3	<3	<5	<5	<5
APR										
12...	86	<1	<.5	65	62	<3	<3	<5	<5	<5
MAY										
23...	--	<1	--	67	--	<3	--	<5	--	<5
JUN										
26...	130	<1	<.5	72	72	<3	<3	9	13	8
AUG										
02...	130	<1	<1	160	160	3	<3	11	<5	<5
30...	190	<1	<1	270	270	<3	<3	<5	<5	<5

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
NOV										
07...	--	<5	--	1700	--	<50	--	360	--	<.1
30...	--	<5	--	1100	--	<50	--	210	--	<.1
FEB										
09...	<5	<5	<5	370	<50	<50	<50	190	180	<.1
MAR										
22...	<5	17	<5	3500	<50	120	<50	240	70	<.1
APR										
12...	<5	<5	<5	1500	<50	<50	<50	140	82	<.1
MAY										
23...	--	<5	--	2500	--	<50	--	200	--	<.1
JUN										
26...	10	<5	<5	2100	<50	<100	<100	110	41	<.1
AUG										
02...	<5	<5	<5	980	<50	<50	<50	160	100	<.1
30...	<5	<5	<5	980	<50	<50	<50	740	570	<.1

05568775 SPOON RIVER NEAR WYOMING, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV										
07...	<5	--	<3	--	840	--	<5	--	<100	--
30...	<5	--	<3	--	290	--	<5	--	<100	--
FEB										
09...	9	7	<3	<3	460	450	<5	<5	<50	<50
MAR										
22...	<5	<5	<3	<3	190	190	<5	<5	<100	<50
APR										
12...	<5	<5	<3	<3	220	220	<5	<5	<50	<50
MAY										
23...	<5	--	<3	--	230	--	<5	--	<100	--
JUN										
26...	11	10	<3	6	280	280	7	8	220	<100
AUG										
02...	<5	<5	<3	<3	480	470	<5	<5	<100	<50
30...	<5	<5	<3	<3	600	600	<5	<5	<50	<50

BEST COPY AVAILABLE

05568800 INDIAN CREEK NEAR WYOMING, IL

LOCATION.--Lat 41°01'06", long 89°50'07", in SE¼SE¼ sec.17, T.12 N., R.6 E., Stark County, Hydrologic Unit 07130005, on left bank at upstream side of county highway bridge, 4.5 mi southwest of Wyoming and at mile 4.9.

DRAINAGE AREA.--62.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.78 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--25 years, 47.0 ft^3/s, 10.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,540 ft^3/s June 22, 1974, gage height, 13.81 ft, from rating curve extended above 1,400 ft^3/s on basis on contracted-opening measurement of peak flow; minimum, 0.1 ft^3/s Oct. 7-12, 1963, Sept. 16, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 15	2145	*753	*8.51	June 7	0515	720	8.37

Minimum discharge, 0.80 ft^3/s Oct. 2, 3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.3	26	17	15	35	58	98	95	29	11	2.0
2	1.1	6.0	22	17	16	32	54	93	89	28	10	1.8
3	1.2	3.7	19	18	17	30	80	93	82	27	9.2	1.7
4	1.3	3.4	18	19	18	30	110	90	74	26	8.5	1.6
5	1.3	2.9	17	17	16	30	90	85	71	25	8.1	1.6
6	1.2	2.7	16	16	15	26	80	81	79	25	7.4	1.6
7	1.1	3.3	14	15	15	26	70	76	319	21	6.8	1.7
8	1.3	3.5	13	15	15	23	70	70	127	21	6.4	1.8
9	1.3	3.2	12	15	15	23	78	65	246	22	6.1	2.5
10	1.1	4.3	11	16	22	24	71	62	140	19	6.0	2.6
11	1.3	7.5	17	17	70	22	65	62	109	54	5.3	4.4
12	2.4	6.5	40	16	240	20	76	56	97	29	5.1	4.1
13	2.4	5.2	35	15	336	25	75	54	87	23	5.0	3.4
14	2.6	4.0	31	14	121	22	143	49	77	21	4.8	3.0
15	1.8	4.1	27	14	76	210	167	47	69	26	4.8	2.7
16	1.4	3.7	24	15	77	335	159	46	66	20	4.5	2.6
17	1.7	3.6	21	15	117	130	136	46	59	19	4.2	2.3
16	1.1	3.6	18	15	106	70	113	44	54	17	8.0	2.1
19	1.1	4.9	16	14	130	63	98	43	50	16	6.8	2.1
20	1.8	8.1	17	13	95	97	89	63	47	16	4.6	1.8
21	4.0	12	18	12	77	110	84	52	45	15	4.0	1.6
22	12	4.5	20	12	67	176	314	83	43	14	3.6	1.4
23	7.7	70	18	13	60	240	262	99	66	13	3.4	5.2
24	4.5	40	17	13	53	150	195	82	54	13	3.0	5.2
25	2.7	26	17	14	46	110	159	165	47	15	2.7	4.3
26	2.1	21	18	15	42	82	139	130	43	19	2.6	3.7
27	2.1	38	19	15	39	87	122	96	39	20	2.6	2.8
28	2.1	110	20	16	37	78	100	179	36	14	2.6	2.3
29	2.0	60	17	14	36	70	115	182	34	13	2.6	1.8
30	1.8	30	16	14	---	65	124	131	31	12	2.6	1.6
31	2.5	---	16	14	---	60	---	109	---	11	2.3	---
TOTAL	73.5	499.0	610	465	1989	2501	3496	2631	2475	643	164.6	77.3
MEAN	2.37	16.6	19.7	15.0	68.6	80.7	117	84.9	82.5	20.7	5.31	2.58
MAX	12	110	40	19	336	335	314	182	319	54	11	5.2
MIN	1.1	2.7	11	12	15	20	54	43	31	11	2.3	1.4
CFSM	.04	.26	.31	.24	1.09	1.29	1.87	1.35	1.32	.33	.08	.04
IN.	.04	.30	.36	.28	1.18	1.48	2.07	1.56	1.47	.38	.10	.05

CAL YR 1983 TOTAL 16551.73 MEAN 45.3 MAX 1110 MIN .49 CFSM .72 IN. 9.82
WTR YR 1984 TOTAL 15624.4 MEAN 42.7 MAX 336 MIN 1.1 CFSM .68 IN. 9.27

05568800 INDIAN CREEK NEAR WYOMING, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
19...	0930	17002	17002	1.1	789	6.8	10.0	4.0	8.3	13	460
NOV											
01...	1100	17002	17002	2.8	829	7.8	12.0	2.2	11.0	16	180
30...	1200	17002	17002	30	732	8.2	1.0	3.3	13.4	9	K1100
FEB											
09...	1300	17002	17002	E15	784	7.3	.0	1.2	11.9	8	610
MAR											
22...	1200	17002	17002	176	745	7.6	4.0	16	12.0	20	K900
APR											
12...	1100	17002	17002	79	686	7.5	10.0	3.4	10.6	13	270
MAY											
23...	1100	17002	17002	100	695	7.4	13.5	40	9.2	12	K15000
JUN											
26...	1000	17002	17002	43	747	7.6	20.0	2.0	8.2	19	K910
AUG											
02...	1000	17002	17002	11	709	7.7	22.5	4.9	8.6	8	K140
30...	1200	17002	17002	2.6	712	8.3	24.0	20	10.0	34	K440

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
19...	--	--	.00	76	--	44	--	58	--	4.3	--
NOV											
01...	--	--	.00	78	--	39	--	52	--	4.6	--
30...	--	--	.00	95	--	38	--	24	--	2.6	--
FEB											
09...	370	110	.00	89	89	37	37	23	23	1.5	1.5
MAR											
22...	340	140	.00	84	81	35	34	9.7	9.7	1.7	1.2
APR											
12...	370	150	--	88	87	38	38	11	11	1.2	.96
MAY											
23...	350	120	.00	85	83	36	35	12	12	1.8	1.7
JUN											
26...	360	97	.00	83	83	37	37	15	15	1.4	.96
AUG											
02...	340	81	.00	73	73	39	39	26	26	1.6	1.5
30...	310	52	.00	62	60	40	39	54	55	3.4	3.1

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05568800 INDIAN CREEK NEAR WYOMING, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT											
19...	277	60	7	3	.95	<.100	<.001	--	--	240	--
NOV											
01...	269	69	6	3	1.5	<.100	<.001	--	--	230	--
30...	247	67	20	2	9.5	.130	.002	--	--	310	--
FEB											
09...	269	60	8	3	7.6	.270	<.001	.150	.120	130	<50
MAR											
22...	203	49	155	15	14	<.100	<.001	.240	.080	2000	61
APR											
12...	221	48	103	13	12	<.100	<.001	.110	.040	1200	<50
MAY											
23...	236	47	109	7	12	.140	<.001	.190	.120	1100	<50
JUN											
26...	263	52	95	80	13	<.100	<.002	.160	.080	2100	<50
AUG											
02...	262	54	28	6	6.1	<.100	<.002	.120	.100	600	<50
30...	259	58	66	48	.14	<.100	<.010	.250	.030	790	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT											
19...	100	--	<1	--	140	--	<3	--	<5	--	<5
NOV											
01...	100	--	<1	--	130	--	<3	--	<5	--	<5
30...	100	--	<1	--	61	--	3	--	<5	--	<5
FEB											
09...	88	85	<1	<1	58	56	<3	<3	7	6	<5
MAR											
22...	100	80	<1	<1	<50	<50	<3	<3	<5	<5	<5
APR											
12...	100	85	<1	<.5	<50	<50	<3	<3	6	6	<5
MAY											
23...	100	97	<1	<.5	<50	<50	<3	<3	<5	<5	<5
JUN											
26...	100	120	<1	<.5	<50	<50	<3	<3	20	12	16
AUG											
02...	100	120	<1	<.5	71	72	<3	<3	11	7	<5
30...	100	120	<1	<.5	140	140	<3	<3	6	<5	<5

05568800 INDIAN CREEK NEAR WYOMING, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT										
19...	--	<5	--	200	--	<50	--	280	--	<.1
NOV										
01...	--	<5	--	300	--	<100	--	230	--	<.1
30...	--	<5	--	560	--	<50	--	170	--	<.1
FEB										
09...	<5	<5	<5	200	<50	<50	<50	120	110	.2
MAR										
22...	<5	15	<5	3500	<50	<50	<50	210	41	<.1
APR										
12...	<5	<5	<5	1900	<50	<50	<50	130	36	<.1
MAY										
23...	<5	<5	<5	1700	<50	<50	<50	150	62	<.1
JUN										
26...	13	<5	<5	2400	<50	120	120	130	35	<.1
AUG										
02...	<5	<5	<5	730	<50	<50	<50	120	81	<.1
30...	<5	<5	<5	1000	<50	<50	<50	480	220	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
19...	14	--	<3	--	170	--	<5	--	230	--
NOV										
01...	12	--	<3	--	160	--	<5	--	<50	--
30...	<5	--	<3	--	170	--	<5	--	<50	--
FEB										
09...	8	8	<3	<3	150	150	<5	<5	<50	<50
MAR										
22...	6	<5	<3	<3	130	130	8	<5	<50	<50
APR										
12...	<5	<5	<3	<3	140	140	6	<5	<50	50
MAY										
23...	6	<5	<3	<3	150	140	<5	<5	<50	<50
JUN										
26...	25	19	7	6	170	170	14	7	<100	<100
AUG										
02...	<5	<5	<3	<3	160	160	<5	<5	<50	<50
30...	10	<5	<3	<3	170	170	<5	<5	<50	<50

05568915 SPOON RIVER NEAR DAHINDA, IL

LOCATION.--Lat 40°54'33", long 90°05'12", in SE¼ sec.30, T.11 N., R.4 E., Knox County, Hydrologic Unit 07130005, at bridge on U.S. Highway 150, 1.6 mi downstream from Court Creek, 1.7 mi southwest of Dahinda, and at mile 100.0.

DRAINAGE AREA.--762 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1959, 1961-62, 1964-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DJ 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
OCT 19...	0830	17002	17002	690	7.6	12.0	--	8.0	20	590	--
NOV 30...	0900	17002	17002	683	8.6	2.0	13	12.5	34	K8800	--
FEB 09...	0900	17002	17002	810	7.1	.0	1.0	11.0	8	140	410
MAR 22...	0900	17002	17002	574	7.8	3.0	28	12.0	28	K800	310
APR 16...	1200	17002	17002	662	7.3	8.0	--	10.5	16	K1000	330
MAY 23...	0900	17002	17002	625	7.4	16.0	7.4	7.7	62	32000	310
JUN 26...	0800	17002	17002	748	7.7	22.5	3.1	7.5	20	K500	350
AUG 02...	0800	17002	17002	696	7.7	23.5	5.3	6.7	13	K260	330
30...	0900	17002	17002	728	8.0	25.0	11	6.1	26	K60	320

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT 19...	--	.00	72	--	44	--	28	--	4.0	--	176
NOV 30...	--	.00	85	--	35	--	21	--	4.2	--	193
FEB 09...	160	.00	97	96	41	41	22	23	2.6	2.5	250
MAR 22...	150	.00	79	74	34	31	11	11	2.8	2.2	161
APR 16...	120	.00	80	77	35	33	9.4	9.3	1.7	1.5	208
MAY 23...	130	.00	81	73	36	32	10	10	3.4	2.0	189
JUN 26...	100	.00	81	80	37	36	16	16	2.4	1.7	246
AUG 02...	95	.00	77	74	37	36	21	21	2.6	2.5	239
30...	89	.00	61	61	41	41	48	49	3.3	3.1	233

K Results based on colony count outside the acceptable range (non-ideal colony count).

05568915 SPOON RIVER NEAR DAHINDA, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
OCT 19...	150	80	20	<.10	<.100	<.001	--	--	800	--	100
NOV 30...	92	163	17	8.5	.230	.009	--	--	1800	--	100
FEB 09...	90	7	1	7.3	.220	<.001	.150	.060	220	53	98
MAR 22...	61	315	45	11	.140	<.001	.450	.070	4000	120	200
APR 16...	72	370	110	9.6	<.100	<.001	.230	.070	1100	<50	100
MAY 23...	59	780	60	9.8	.130	.001	.450	.090	13000	<50	300
JUN 26...	69	190	165	11	<.100	<.002	.240	.080	3800	<50	200
AUG 02...	71	40	5	3.0	<.100	<.003	.090	.050	720	<50	100
30...	78	86	68	<.10	<.100	<.006	.200	.020	880	<50	200

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 19...	--	<1	--	120	--	<3	--	6	--	<5
NOV 30...	--	<1	--	76	--	<3	--	11	--	<5
FEB 09...	90	<1	<2	61	59	<3	<3	6	6	<5
MAR 22...	81	<1	<1	<50	<50	3	<3	12	<5	10
APR 16...	79	<1	<1	53	51	<3	<3	<5	<5	<5
MAY 23...	89	<1	<.5	78	<50	<3	<3	21	<5	12
JUN 26...	120	<1	<.5	63	57	<3	<3	17	8	13
AUG 02...	110	<1	<.5	82	82	3	<3	13	<5	<5
30...	150	<1	<.5	130	130	<3	<3	<5	<5	<5

05568915 SPOON RIVER NEAR DAHINDA, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT 19...	--	<5	--	1200	--	<50	--	240	--	<.1
NOV 30...	--	6	--	3500	--	<50	--	330	--	<.1
FEB 09...	<5	<5	<5	360	<50	<50	<50	97	80	<.1
MAR 22...	<5	17	<5	6800	<50	<100	<50	400	38	<.1
APR 16...	<5	<5	<5	1900	<50	<50	<50	210	13	<.1
MAY 23...	<5	20	<5	18000	<50	<50	<50	820	<5	<.1
JUN 26...	<5	6	<5	4300	<50	220	<50	190	12	<.1
AUG 02...	<5	<5	<5	970	<50	<50	--	76	32	<.1
30...	<5	<5	<5	1300	<50	<50	<50	520	340	.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 19...	18	--	<3	--	230	--	<5	--	160	--
NOV 30...	8	--	<3	--	230	--	7	--	100	--
FEB 09...	8	10	<3	<3	240	230	<5	<5	<100	110
MAR 22...	20	<5	<3	<3	160	150	13	<5	<100	<50
APR 16...	7	<5	<3	<3	160	160	7	<5	<50	<50
MAY 23...	37	<5	<3	<3	180	160	31	<5	170	<50
JUN 26...	29	<5	3	<3	210	210	12	<5	<100	<50
AUG 02...	<5	<5	<3	<5	230	220	<5	<5	<50	<50
30...	<5	8	<3	<3	230	230	<5	<5	<50	<50

05569500 SPOON RIVER AT LONDON MILLS, IL

LOCATION (Revised).--Lat 40°42'32", long 90°16'53", in SW1/4NE1/4 sec.4, T.8 N., R.2 E., Fulton County, Hydrologic Unit 07130005, on left bank at downstream side of bridge on State Highway 116, 0.2 mi downstream from Chicago and North Western Railroad bridge, 0.5 mi west of London Mills, 0.5 mi upstream from Cedar Creek, 4.0 mi downstream from Littlers Creek, and at mile 69.2.

DRAINAGE AREA.--1,072 mi^2 (revised). Area at site used prior to April 26, 1984, 1,062 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1175: 1947. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 508.97 ft National Geodetic Vertical Datum of 1929. Prior to July 13, 1945, nonrecording gage at same site and datum. July 14, 1945, to Apr. 26, 1984, at site 0.9 mi upstream at same datum.

REMARKS.--Water-discharge records good except those for winter periods and those for periods of no gage-height record, Mar. 6 to Apr. 10 and May 16-31, which are poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--42 years, 712 ft^3/s, 9.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,000 ft^3/s June 23, 1974, gage height, 28.03 ft, from graph based on gage readings; minimum, 5.6 ft^3/s Sept. 16, 17, 1959, Feb. 2-8, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 26, 1924, reached a stage of 27.08 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 22	0645	6650	18.40	June 9	2100	6090	17.57
May 20	Unknown	*17000	Unknown				

Minimum discharge, 32 ft^3/s Oct. 10.

REVISIONS.--The peak discharges and annual maximum (*) for water years 1948, 1950, 1951, 1954, 1955, 1958, 1960, 1962, 1964, 1965, and 1970 and revised daily discharges, in cubic feet per second, for high-water periods in 1951, 1955, 1958, 1960, 1962, 1964, 1965, and 1970 water years are given below. These figures supersede those published in WSP 1115, 1175, 1208, 1338, 1558, 1708, 1915, and 2115.

Water Year	Date	Discharge (ft^3/s)	Gage height (ft)
1948	Mar. 20, 1948	*23000	*22.48
1950	Apr. 25, 1950	*20000	*21.75
1951	Feb. 21, 1951	9300	19.93
	July 22, 1951	*17500	*23.73
1954	June 2, 1954	*9000	*19.71
1955	Feb. 2, 1955	*9700	*20.33
1958	June 13, 1958	*8600	*19.35
1960	Mar. 31, 1960	*11500	*21.42
1962	Mar. 13, 1962	*8100	*18.90
1964	June 21, 1964	*11200	*21.17
1965	Jan. 24, 1965	*10200	*20.57
1970	May 16, 1970	*22400	*25.01

Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)
July 22, 1951	9500	June 13, 1958	8200	Mar. 12, 1962	7800
July 23, 1951	13500	June 14, 1958	7800	Mar. 13, 1962	7810
July 24, 1951	10100			Mar. 22, 1962	8000
July 25, 1951	7500	Mar. 29, 1960	8200	June 21, 1964	10200
		Mar. 30, 1960	10100		
Feb. 20, 1955	9000	Mar. 31, 1960	11400	Jan. 24, 1965	10000
Feb. 21, 1955	8500	Apr. 1, 1960	11000		
Feb. 22, 1955	8100	Apr. 2, 1960	9600	May 16, 1970	19000

Month	Total	Mean	Max	Cfsm	In.
July 1951	91,233	2943	13500	2.77	3.20
Wtr Yr 1951	349,801	958	13500	.90	12.25
Cal Yr 1951	393,431	1077	13500	1.01	13.77
Feb. 1955	56,147	2005	9000	1.89	1.97
Wtr Yr 1955	319,089	874	9000	.82	11.18
Cal Yr 1955	282,781	775	9000	.73	9.91
June 1958	66,599	2220	8200	2.09	2.33
Wtr Yr 1958	183,051	502	8200	.47	6.42
Cal Yr 1958	176,899	485	8200	.46	6.20

05569500 SPOON RIVER AT LONDON MILLS, IL--Continued

REVISIONS.--Continued

Month	Total	Mean	Max	Cfsm	In.
Mar. 1960	46,490	1500	11400	1.40	1.61
Apr. 1960	93,060	3102	11000	2.92	3.26
Wtr Yr 1960	384,564	1059	11400	1.00	13.54
Cal Yr 1960	339,869	929	11400	.87	11.88
Mar. 1962	99,920	3223	8000	3.03	3.50
Wtr Yr 1962	332,953	912	8000	.86	11.66
Cal Yr 1962	260,371	713	8000	.67	9.12
June 1964	33,932	1131	10200	1.06	1.19
Wtr Yr 1964	100,421.1	274	10200	.26	3.50
Cal Yr 1964	100,904.2	276	10200	.26	3.53
Jan. 1965	75,541	2437	10000	2.29	2.65
Wtr Yr 1965	346,008.2	948	10000	.89	12.12
Cal Yr 1965	383,727	1051	10000	.99	13.44
May 1970	101,701	3281	19000	3.09	3.56
Wtr Yr 1970	444,479	1218	19000	1.15	15.57
Cal Yr 1970	509,197	1395	19000	1.31	17.84

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	77	549	330	510	581	1400	2700	1610	480	175	57
2	45	87	470	320	520	581	1300	2200	1460	450	168	56
3	42	92	453	310	660	579	1800	1800	1320	430	154	54
4	41	98	428	305	600	566	2300	2000	1220	430	147	55
5	38	94	418	310	450	561	2100	2100	1160	450	141	55
6	36	84	430	350	400	534	1900	1950	1190	420	137	54
7	34	83	428	340	350	490	1750	1700	3210	380	133	56
8	34	82	420	325	330	450	1550	1500	4030	350	123	54
9	33	78	410	310	310	430	1450	1350	5480	330	119	55
10	32	93	400	300	450	400	1300	1250	3980	350	115	56
11	34	119	670	280	660	390	1210	1160	2240	380	108	57
12	45	146	1250	275	940	380	1230	1050	1740	427	101	57
13	47	139	1260	260	1350	370	1420	1000	1530	405	91	57
14	49	131	1060	250	1900	430	1400	920	1360	296	87	55
15	51	110	700	245	1700	900	1560	860	1240	476	82	55
16	59	101	540	240	1500	2300	1810	808	1210	403	82	55
17	84	94	500	230	1300	2000	1830	760	1120	305	82	55
18	78	90	460	225	1450	1700	1640	738	1030	259	91	55
19	77	94	540	220	1610	1800	1440	722	941	235	95	56
20	81	106	600	210	1670	4000	1290	15000	863	233	95	56
21	101	131	660	205	1470	5000	1210	10000	806	317	87	55
22	181	149	580	210	1240	2500	3970	7000	764	250	82	54
23	206	512	520	200	1090	1800	5320	4500	873	205	63	56
24	184	822	480	200	985	1400	3410	3000	1020	190	61	55
25	147	633	450	195	885	1350	2940	1900	752	220	61	120
26	114	406	420	190	799	1500	2100	1800	664	254	59	121
27	97	382	400	190	733	1900	1900	1750	600	305	59	98
28	87	799	390	300	686	1800	1700	1700	560	248	59	67
29	80	985	370	400	612	1700	1600	2500	530	249	59	53
30	76	746	360	500	---	1600	2200	2100	500	205	59	45
31	76	---	340	550	---	1500	---	1850	---	188	58	---
TOTAL	2338	7563	16956	8775	27160	41492	58030	79668	45003	10120	3033	1834
MEAN	75.4	252	547	283	937	1338	1934	2570	1500	326	97.8	61.1
MAX	206	985	1260	550	1900	5000	5320	15000	5480	480	175	121
MIN	32	77	340	190	310	370	1210	722	500	188	58	45
CFSM	.07	.24	.51	.26	.87	1.25	1.80	2.40	1.40	.30	.09	.06
IN.	.08	.26	.59	.30	.94	1.44	2.01	2.76	1.56	.35	.11	.06

CAL YR 1983 TOTAL 273210 MEAN 749 MAX 14100 MIN 30 CFSM .70 IN. 9.48
WTR YR 1984 TOTAL 301972 MEAN 825 MAX 15000 MIN 32 CFSM .77 IN. 10.48

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05569500 SPOON RIVER AT LONDON MILLS, IL--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at site 0.9 mile upstream from discharge station.

PERIOD OF RECORD.--Water years 1978 to current year.

REMARKS.--Data formerly published at Spoon River at Route 116 bridge at London Mills (station 05569520) has been included with data for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 18...	1130	17002	17002	81	815	7.5	12.0	13	9.9	23	--
NOV 29...	1100	17002	17002	1050	632	8.6	4.0	120	10.9	53	K11000
FEB 08...	1200	17002	17002	E330	772	7.2	.0	1.1	10.2	11	K95
MAR 21...	1000	17002	17002	5460	442	7.7	2.0	62	12.3	51	K1500
APR 16...	1000	17002	17002	1790	618	7.3	9.0	50	10.3	63	K1500
MAY 22...	1000	17002	17002	7000	692	7.6	18.0	32	7.9	16	620
JUN 25...	1100	17002	17002	753	660	7.5	23.0	3.2	6.9	38	2300
AUG 01...	1100	17002	17002	178	758	7.8	24.0	9.8	8.6	10	K40
29...	1100	17002	17002	58	669	8.0	27.0	12	8.2	24	580

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 18...	--	--	.00	76	--	46	--	42	--	4.2	--
NOV 29...	--	--	.00	85	--	35	--	20	--	5.1	--
FEB 08...	380	160	.00	90	87	40	39	25	24	3.2	3.1
MAR 21...	220	120	.00	63	53	27	22	9.3	8.9	3.5	2.4
APR 16...	310	120	.00	78	71	34	32	9.1	9.0	1.9	1.4
MAY 22...	360	140	.00	83	82	38	37	13	12	1.9	1.6
JUN 25...	330	120	.00	80	76	36	33	16	15	4.1	2.3
AUG 01...	360	100	.00	80	79	40	39	28	28	2.9	2.7
29...	300	68	.00	66	57	43	38	38	33	3.2	2.5

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05569500 SPOON RIVER AT LONDON MILLS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 18...	213	130	54	16	<.10	<.100	<.001	--	--	520	--
NOV 29...	172	110	500	44	5.0	.260	.012	--	--	4800	--
FEB 08...	214	110	11	2	6.4	.350	<.001	.160	.120	310	61
MAR 21...	107	54	670	55	7.9	.190	<.001	.740	.010	8800	190
APR 16...	185	78	760	65	7.6	<.100	<.001	<.010	<.010	3600	<50
MAY 22...	214	75	190	15	9.0	<.100	<.001	.150	.060	1800	100
JUN 25...	204	67	412	346	9.0	<.100	<.002	.560	.080	11000	<50
AUG 01...	258	100	24	5	3.8	<.100	<.003	.090	.040	3100	<50
29...	231	120	68	54	<.10	<.100	<.006	.160	.010	710	<50

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 18...	100	--	<1	--	140	--	<3	--	<5	--	<5
NOV 29...	200	--	<2	--	75	--	8	--	8	--	9
FEB 08...	90	83	<1	<2	67	65	<3	<3	6	5	<5
MAR 21...	200	65	<2	<.5	<50	<50	6	<3	22	<5	16
APR 16...	200	72	<1	<1	57	<50	<3	<3	<5	<5	9
MAY 22...	100	92	<1	<.5	59	55	<3	<3	<5	<5	<5
JUN 25...	300	110	<2	<2	88	94	9	<3	12	<5	13
AUG 01...	100	110	<1	<.5	180	120	<3	<3	15	7	<5
29...	100	110	<1	<.5	110	96	<3	<3	<5	<5	<5

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT 18...	--	<5	--	700	--	<50	--	190	--	<.1
NOV 29...	--	15	--	9000	--	<50	--	820	--	<.1
FEB 08...	<5	<5	<5	470	<50	<50	<50	130	100	<.1
MAR 21...	<5	18	<5	15000	92	<100	<50	710	50	<.1
APR 16...	<5	12	<5	4200	<50	<50	<50	710	9	<.1
MAY 22...	<5	6	<5	3100	160	<50	<50	190	14	<.1
JUN 25...	<5	15	<5	14000	<50	<100	<50	570	<5	<.1
AUG 01...	<5	110	<5	470	<50	<50	<50	66	26	<.1
29...	<5	<5	<5	1100	<50	<50	<50	290	72	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 18...	7	--	<3	--	270	--	<5	--	170	--
NOV 29...	18	--	<3	--	220	--	15	--	<100	--
FEB 08...	10	11	<3	<3	230	230	<5	<5	<50	<50
MAR 21...	32	<5	<3	<3	130	110	23	<5	<100	<50
APR 16...	9	<5	<3	<3	160	150	16	<5	<100	<50
MAY 22...	9	5	<3	<3	180	180	5	<5	<100	<50
JUN 25...	24	<5	<3	<3	200	190	22	<5	110	<100
AUG 01...	9	<5	<3	<3	240	240	<5	<5	<100	<50
29...	<5	9	<3	<3	230	200	<5	<5	<50	<50

05570000 SPOON RIVER AT SEVILLE, IL

LOCATION.--Lat 40°29'08", long 90°20'34", in NE¼NW¼ sec.24, T.6 N., R.1 E., Fulton County, Hydrologic Unit 07130005, on right bank at downstream side of bridge on unimproved road, 100 ft upstream from Toledo, Peoria, and Western Railroad bridge, 0.1 mi northeast of Seville, 0.47 mi downstream from State Highway 95, 0.55 mi downstream from Shaw Creek, and at mile 38.7

DRAINAGE AREA.--1,636 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1914 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1208: 1917, 1920, 1922, 1924, 1926-27, 1929(M). WSP 1308: 1919(M), 1936(M), 1938(M), 1942(M), 1945(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 467.04 ft National Geodetic Vertical Datum of 1929. Prior to May 9, 1935, nonrecording gage at site 100 ft downstream at same datum. May 9, 1935, to June 30, 1976, nonrecording gage at present site and datum. July 1, 1976, to July 7, 1983, at site 0.47 mi upstream at same datum.

REMARKS.--Water-discharge records good except those for period of no gage-height record, May 21-30, which are poor. National Weather Service gage-height telemeter at this station.

AVERAGE DISCHARGE.--70 years, 1,057 ft³/s, 8.77 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,300 ft³/s Aug. 22, 1924, gage height, 30.77 ft, from graph based on gage readings; maximum gage height, 31.82 ft June 24, 1974, from graph based on gage readings; minimum discharge observed, 3.8 ft³/s July 31, Aug. 27-29, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1883 reached a stage of about 33.0 ft, backwater from ice, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 24	1045	7890	19.08	June 10	1730	8790	20.26
May 21	Unknown	*21000	Unknown				

Minimum discharge, 46 ft³/s Sept. 6, 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	109	951	530	660	968	2140	3920	2350	701	278	66
2	80	143	752	520	700	1000	2000	3070	2080	678	272	64
3	71	151	673	500	900	929	2070	2660	1880	647	280	54
4	65	141	655	500	800	870	2650	3110	1700	631	272	51
5	62	157	644	550	700	855	3140	3120	1600	648	269	50
6	58	144	676	580	600	822	3030	2690	1520	625	275	46
7	55	136	627	540	500	746	2760	2400	2890	569	283	46
8	53	125	607	510	480	700	2580	2200	6590	514	307	50
9	51	122	551	480	470	689	2430	2040	7510	484	313	61
10	52	261	543	440	480	647	2430	1900	8390	475	307	63
11	52	258	1300	420	740	618	2240	1790	4960	527	307	75
12	73	254	1770	390	1200	605	2170	1740	2880	536	301	75
13	79	287	1930	370	1900	632	2320	1670	2370	595	307	77
14	76	256	1670	350	3100	640	2350	1540	2060	499	247	84
15	75	232	1200	330	2800	855	2400	1430	1870	607	196	89
16	79	196	870	310	2500	2770	2690	1340	1770	779	163	73
17	76	178	780	290	2200	2920	2630	1280	1660	596	150	61
18	102	167	700	280	2400	2500	2650	1240	1520	448	201	56
19	106	162	760	270	2600	2100	2340	1220	1370	390	179	54
20	117	193	900	260	2840	3500	2110	3260	1240	369	170	53
21	158	208	1000	250	2480	4500	2010	20000	1150	366	143	50
22	282	225	900	240	2060	5200	3070	10200	1090	448	143	51
23	418	1180	800	230	1790	3200	3060	7000	1180	351	128	70
24	384	1400	750	220	1600	2900	5200	4000	1660	304	108	83
25	298	1260	700	220	1450	2600	4170	2760	1280	298	100	88
26	222	844	660	220	1310	2700	3660	2690	1010	629	90	139
27	174	780	640	240	1190	3500	3180	2740	931	518	84	202
28	146	1240	610	370	1120	3300	2830	2740	871	529	77	138
29	127	1510	580	580	1030	2900	2720	2690	807	432	77	95
30	116	1330	560	800	---	2650	3200	3190	743	369	75	78
31	113	---	540	700	---	2350	---	2850	---	318	64	---
TOTAL	3910	13649	26299	12490	42600	61166	82230	104480	68932	15880	6166	2242
MEAN	126	455	848	403	1469	1973	2741	3370	2298	512	199	74.7
MAX	418	1510	1930	800	3100	5200	5200	20000	8390	779	313	202
MIN	51	109	540	220	470	605	2000	1220	743	298	64	46
CFSM	.08	.28	.52	.25	.90	1.21	1.68	2.06	1.40	.31	.12	.05
IN.	.09	.31	.60	.28	.97	1.39	1.87	2.38	1.57	.36	.14	.05

CAL YR 1983 TOTAL 473514 MEAN 1297 MAX 20500 MIN 41 CFSM .79 IN. 10.77
WTR YR 1984 TOTAL 440044 MEAN 1202 MAX 20000 MIN 46 CFSM .73 IN. 10.01

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05570000 SPOON RIVER AT SEVILLE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 18...	1040	17002	17002	104	749	7.0	12.0	--	9.6	24	--
DEC 20...	1000	17002	17002	E900	833	7.4	.0	1.4	13.4	9	K70
MAR 13...	1000	17002	17002	629	774	7.1	.0	1.9	13.6	8	K5
APR 09...	1000	17002	17002	2420	580	6.8	9.0	2.2	9.9	20	K100
30...	1000	17002	17002	2950	667	7.5	13.0	17	8.5	26	4300
JUN 07...	1000	17002	17002	2240	713	7.5	22.5	1.0	6.9	26	2200
JUL 05...	1000	17002	17002	636	730	8.5	23.0	6.2	8.0	15	K150
AUG 08...	1100	17002	17002	310	560	8.2	29.0	6.1	9.7	40	K40
SEP 05...	0930	17002	17002	50	716	7.8	19.0	--	8.4	23	K80

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT 18...	--	--	.00	80	--	43	--	34	--	4.0	--
DEC 20...	--	--	.00	100	--	46	--	21	--	2.8	--
MAR 13...	400	160	.00	93	91	42	41	18	18	1.8	1.7
APR 09...	360	160	--	84	83	38	38	11	12	2.1	1.7
30...	410	210	.00	92	91	45	44	12	13	2.8	1.8
JUN 07...	360	140	.00	89	84	40	37	15	15	3.3	1.6
JUL 05...	370	130	.00	86	86	39	38	18	18	2.0	1.7
AUG 08...	240	87	.00	41	38	37	35	22	21	2.8	2.3
SEP 05...	340	92	.00	71	69	41	40	23	23	3.0	2.8

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

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05570000 SPOON RIVER AT SEVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT											
18...	217	130	52	18	<.10	<.100	<.001	--	--	600	--
DEC											
20...	232	150	8	0	7.8	.130	<.001	--	--	180	--
MAR											
13...	238	110	35	2	6.6	.160	<.001	.070	.040	460	68
APR											
09...	200	84	194	20	8.9	<.100	<.001	.200	.040	2100	<50
30...	200	91	425	50	8.3	<.100	<.001	.320	.070	6400	56
JUN											
07...	218	84	600	64	10	<.100	<.002	.450	.080	8400	<50
JUL											
05...	241	84	71	63	9.3	.180	.025	.120	.070	1400	<50
AUG											
08...	152	100	38	15	<.10	<.100	<.011	.140	.010	510	<50
SEP											
05...	246	94	--	--	<.10	<.100	<.002	.130	.030	1000	<50

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT											
18...	100	--	<1	--	130	--	<3	--	<5	--	6
DEC											
20...	98	--	<2	--	80	--	3	--	8	--	<5
MAR											
13...	84	75	<1	<.5	56	55	<3	<3	5	<5	<5
APR											
09...	100	80	<1	<.5	56	50	<3	<3	<5	<5	<5
30...	200	83	<1	<.5	64	<50	<3	<3	12	5	5
JUN											
07...	200	110	<1	<1	71	58	12	<3	32	11	22
JUL											
05...	100	110	<1	<.5	66	69	8	<3	<5	<5	<5
AUG											
08...	93	75	<1	<.5	120	110	<3	<3	7	<5	<5
SEP											
05...	100	130	<1	<.5	96	87	<3	<3	<5	<5	<5

05570000 SPOON RIVER AT SEVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT										
18...	--	<5	--	810	--	<50	--	290	--	<.1
DEC										
20...	--	<5	--	350	--	<50	--	110	--	--
MAR										
13...	<5	<5	<5	900	<50	<50	<50	99	55	<.1
APR										
09...	<5	<5	<5	3800	<50	<50	<50	220	12	<.1
30...	<5	12	<5	10000	<50	<50	<50	440	9	<.1
JUN										
07...	7	15	<5	12000	<50	150	<50	570	<5	<.1
JUL										
05...	<5	<5	<5	1600	<50	<50	<50	94	13	<.1
AUG										
08...	<5	8	<5	800	<50	<50	<50	260	54	<.1
SEP										
05...	<5	<5	<5	1200	<50	<50	<50	400	160	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
18...	16	--	<3	--	220	--	<5	--	170	--
DEC										
20...	13	--	<3	--	230	--	<5	--	130	--
MAR										
13...	6	<5	<3	<3	210	200	<5	<5	<100	<50
APR										
09...	<5	<5	<3	<3	180	170	7	<5	<50	<50
30...	11	<5	<3	<3	180	170	18	<5	<100	<50
JUN										
07...	44	11	4	4	220	210	31	10	<100	<50
JUL										
05...	6	<5	<3	<3	220	220	<5	<5	110	<100
AUG										
08...	6	<5	<3	<3	180	170	<5	<5	<50	<50
SEP										
05...	<5	<5	<3	<3	220	220	<5	<5	<50	<50

05570350 BIG CREEK AT ST. DAVID, IL

LOCATION.--Lat 40°29'51", long 90°03'12", in S½SE¼ sec.16, T.6 N., R.4 E., Fulton County, Hydrologic Unit 07130005, on right bank 40 ft upstream from highway bridge at north edge of St. David, 4.5 mi upstream from Evelyn Branch and at mile 19.2.

DRAINAGE AREA.--28.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1971 to current year.

REVISED RECORDS.--WDR IL-81-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 548.88 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--12 years, 28.9 ft^3/s, 14.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft^3/s June 23, 1974, gage height, 10.25 ft; maximum gage height, 10.54 ft June 2, 1980; minimum daily discharge, 1.5 ft^3/s Sept. 30, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 459 ft^3/s Apr. 22, gage height, 6.56 ft; minimum daily, 1.5 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	5.3	18	17	11	18	37	48	38	20	7.8	2.8
2	5.3	11	19	16	12	18	36	43	34	20	7.4	3.3
3	4.8	6.2	19	16	15	17	65	44	32	19	8.4	3.0
4	5.3	5.3	23	15	17	18	87	38	30	21	8.1	3.3
5	5.1	5.0	21	18	18	18	73	29	30	25	7.3	3.6
6	4.6	4.8	26	21	25	16	61	31	29	21	7.2	3.5
7	5.0	6.0	22	20	14	15	59	34	29	20	7.6	5.1
8	5.1	4.8	19	19	13	15	60	34	80	19	7.7	7.2
9	4.4	4.8	16	18	13	14	65	34	87	19	7.9	6.3
10	4.1	10	15	17	26	14	63	32	67	18	8.0	6.6
11	3.9	7.3	77	16	32	13	51	35	54	26	7.3	7.1
12	8.6	5.7	60	15	72	13	58	35	50	14	6.6	3.8
13	6.4	5.3	38	14	68	14	51	35	50	12	6.5	2.7
14	5.3	5.5	36	13	41	17	45	32	50	11	6.1	3.8
15	4.8	5.3	30	12	33	39	62	26	65	22	5.9	3.0
16	5.1	5.5	26	12	51	85	67	22	63	11	5.9	2.4
17	4.6	6.2	38	11	58	50	58	22	45	9.3	6.8	2.2
18	4.2	6.0	45	10	125	40	50	21	35	8.4	9.8	2.2
19	5.7	6.2	62	10	104	129	54	22	32	8.2	4.2	2.3
20	9.8	17	32	9.9	68	173	49	294	31	11	3.9	2.2
21	13	10	29	9.5	59	108	54	127	29	8.9	3.8	2.1
22	18	7.8	28	9.0	48	76	310	87	35	8.2	3.8	2.5
23	17	63	27	8.6	42	59	163	66	40	7.5	3.6	2.9
24	13	23	25	9.0	37	53	112	54	35	7.4	3.5	2.8
25	6.2	14	24	10	34	101	83	59	31	7.6	3.2	2.1
26	6.4	12	23	15	31	80	74	65	28	18	3.0	1.7
27	4.8	40	22	23	30	81	64	47	25	14	2.9	1.7
28	4.8	89	21	30	34	66	51	50	23	10	4.6	1.8
29	6.8	35	20	27	25	54	60	42	22	8.9	3.9	1.6
30	6.2	23	19	21	---	46	64	39	21	8.3	3.5	1.5
31	6.4	---	18	13	---	40	---	38	---	8.2	3.1	---
TOTAL	211.1	450.0	898	475.0	1156	1500	2186	1585	1220	441.9	179.3	97.1
MEAN	6.81	15.0	29.0	15.3	39.9	48.4	72.9	51.1	40.7	14.3	5.78	3.24
MAX	18	89	77	30	125	173	310	294	87	26	9.8	7.2
MIN	3.9	4.8	15	8.6	11	13	36	21	21	7.4	2.9	1.5
CFSM	.24	.54	1.04	.55	1.42	1.73	2.60	1.82	1.45	.51	.21	.12
IN.	.28	.60	1.19	.63	1.54	1.99	2.90	2.11	1.62	.59	.24	.13

CAL YR 1983	TOTAL	11037.2	MEAN	30.2	MAX	746	MIN	3.6	CFSM	1.08	IN.	14.66
WTR YR 1984	TOTAL	10399.4	MEAN	28.4	MAX	310	MIN	1.5	CFSM	1.01	IN.	13.82

BEST COPY AVAILABLE

05570350 BIG CREEK AT ST. DAVID, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV									
09...	1445	81700	80010	4.6	1310	7.6	13.0	9.5	7.4
DEC									
22...	0910	81700	80010	24	1150	7.7	.0	13.3	3.9
FEB									
01...	1700	81700	80010	12	1220	7.9	.5	15.5	3.4
MAR									
22...	1405	81700	80010	75	870	7.6	5.0	12.3	3.1
MAY									
02...	1500	81700	80010	43	1120	7.4	15.0	9.7	4.2
30...	1500	81700	80010	38	1090	7.6	15.5	10.1	3.1
JUL									
10...	1100	81700	80010	29	1150	7.8	23.5	6.9	5.1
AUG									
22...	1515	81700	80010	4.2	1470	8.4	25.0	--	--
22...	1515	81700	80010	4.2	--	--	--	--	3.7

DATE	TIME	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOSPHORUS, TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)
AUG										
22...	1515	<2.0	19	.0	2700	<1	<1	4	20	10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)
AUG										
22...	5500	20	850	.05	27	4	<.1	11	<.1	<.1

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG										
22...	<.1	<.1	1.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

DATE	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	PERTHANE IN BOTTOM MATERIL (UG/KG) (81886)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG) (39731)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG) (39741)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39761)
AUG									
22...	<.1	<.1	<.1	<1.00	<10	<.1	<.1	<.1	<.1

05570360 EVELYN BRANCH NEAR BRYANT, IL

LOCATION.--Lat 40°29'15", long 90°06'08", in NW¼SW¼ sec.19, T.6 N., R.4 E., Fulton County, Hydrologic Unit 07130005, on right bank 200 ft upstream from dam, 1.4 mi upstream from mouth and 1.5 mi northwest of Bryant.

DRAINAGE AREA.--5.78 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1971 to current year.

REVISED RECORDS.--WDR IL-81-2: Drainage area.

GAGE.--Water-stage recorder and uncontrolled drop inlet. Datum of gage is 568.64 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--12 years (water years 1973-84), 5.43 ft³/s, 12.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151 ft³/s Dec. 2, 1982, gage height, 3.09 ft; minimum daily, 0.15 ft³/s Feb. 1-9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft³/s May 20, gage height, 2.68 ft; minimum daily, 0.55 ft³/s Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	1.4	10	3.0	2.0	4.8	6.0	8.5	12	2.4	3.4	.69
2	3.5	1.9	18	2.9	2.3	4.4	5.5	6.6	10	1.5	2.7	.69
3	2.7	1.6	12	2.9	3.9	4.0	7.5	7.5	12	1.7	2.4	.63
4	2.7	1.2	7.5	3.0	5.0	3.9	12	7.8	11	2.2	2.4	.62
5	3.0	1.0	7.2	3.0	5.0	3.9	12	7.2	8.9	2.0	2.2	.61
6	3.0	.92	7.2	3.3	4.2	3.9	9.6	6.9	12	3.0	2.2	.57
7	3.0	.92	7.2	3.5	3.9	3.7	8.5	6.3	19	2.7	2.7	.55
8	3.0	.84	7.5	3.7	3.2	3.7	7.8	5.8	20	1.9	2.7	.71
9	2.4	.84	7.8	3.5	2.7	3.5	9.6	5.5	19	1.3	2.9	.92
10	1.9	1.9	7.2	3.5	3.5	3.4	8.9	6.6	14	1.7	3.4	1.0
11	1.8	2.0	14	3.0	5.8	3.2	8.2	8.2	10	3.7	2.9	.95
12	2.3	1.7	12	2.7	9.2	3.0	9.6	6.9	8.5	3.7	2.4	.92
13	1.9	1.5	9.2	2.6	13	3.0	10	6.0	7.2	2.2	2.0	.77
14	2.0	1.4	8.9	2.4	11	2.9	8.9	5.5	6.0	1.5	1.3	.72
15	2.3	1.3	9.2	2.1	9.2	4.0	10	5.0	6.6	3.0	1.2	.77
16	2.0	1.4	12	2.0	10	8.2	14	4.6	6.6	2.4	1.1	.77
17	1.7	4.0	11	1.9	14	6.6	22	4.4	5.2	1.6	1.0	.77
18	1.5	7.2	9.2	1.8	21	6.0	28	4.2	4.4	1.4	1.3	.76
19	1.5	5.8	7.8	1.7	25	14	34	4.6	4.4	1.0	1.3	.77
20	2.2	6.0	7.8	1.7	17	35	32	52	6.0	1.0	1.1	.77
21	3.2	5.2	7.4	1.6	10	29	25	35	8.5	1.1	1.0	.74
22	3.2	4.4	6.4	1.5	12	27	50	33	7.2	1.1	1.3	.74
23	2.7	16	5.8	1.5	19	27	41	19	6.6	1.2	.97	.77
24	2.4	11	5.4	1.6	12	15	33	9.6	4.0	1.2	.90	.77
25	2.0	8.2	4.7	1.8	8.5	21	28	10	3.0	2.0	.84	.74
26	2.0	6.3	4.2	2.4	6.9	16	21	12	3.7	4.4	.83	.60
27	1.8	10	3.8	3.0	6.3	14	20	9.0	4.0	5.2	.84	.59
28	1.8	16	3.5	4.0	5.8	11	15	8.0	4.0	4.0	.89	.63
29	1.7	10	3.4	5.0	5.2	8.5	10	9.0	4.0	3.4	.90	.69
30	1.7	8.2	3.2	3.5	---	7.8	11	7.8	3.7	2.9	.82	.77
31	1.5	---	3.0	2.6	---	6.9	---	8.5	---	3.4	.73	---
TOTAL	72.8	140.12	243.5	82.7	256.6	308.3	518.1	331.0	251.5	71.8	52.62	22.00
MEAN	2.35	4.67	7.85	2.67	8.85	9.95	17.3	10.7	8.38	2.32	1.70	.73
MAX	4.4	16	18	5.0	25	35	50	52	20	5.2	3.4	1.0
MIN	1.5	.84	3.0	1.5	2.0	2.9	5.5	4.2	3.0	1.0	.73	.55
CFSM	.41	.81	1.36	.46	1.53	1.72	2.99	1.85	1.45	.40	.29	.13
IN.	.47	.90	1.57	.53	1.65	1.98	3.33	2.13	1.62	.46	.34	.14

CAL YR 1983 TOTAL 2237.64 MEAN 6.13 MAX 70 MIN .46 CFSM 1.06 IN. 14.40
WTR YR 1984 TOTAL 2351.04 MEAN 6.42 MAX 52 MIN .55 CFSM 1.11 IN. 15.13

05570360 EVELYN BRANCH NEAR BRYANT, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 09...	1130	81700	80010	.65	1850	7.7	11.0	10.4	7.6
DEC 21...	1115	81700	80010	7.3	1750	7.7	.5	--	5.4
FEB 01...	1200	81700	80010	2.0	1960	8.1	3.0	14.2	6.9
MAR 22...	1105	81700	80010	27	1680	8.1	2.5	13.6	5.2
MAY 02...	1005	81700	80010	7.1	1680	7.6	15.0	9.9	6.6
30...	1200	81700	80010	7.8	1660	8.0	18.0	10.0	4.9
JUL 11...	1500	81700	80010	4.0	1570	8.3	26.5	7.3	6.4
AUG 22...	1315	81700	80010	1.1	1840	8.7	27.0	--	--
22...	1315	81700	80010	1.1	--	--	--	--	6.4

DATE	TIME	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOSPHORUS, TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)
AUG 22...	1315	3.0	12	.0	200	<1	<1	4	20	<10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)
AUG 22...	4300	20	860	.01	19	<1	<.1	<1.0	<.1	<.1

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG 22...	<.1	<.1	1.3	<.1	<.1	<.1	<.1	<.1	<.1	<.1

DATE	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	PERTHANE IN BOTTOM MATERIL (UG/KG) (81886)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG) (39731)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG) (39741)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39761)
AUG 22...	<.1	<.1	<.1	<1.00	<10	<.1	<.1	<.1	<.1

05570370 BIG CREEK NEAR BRYANT, IL

LOCATION.--Lat 40°27'32", long 90°08'00", in center of sec.35, T.6 N., R.3 E., Fulton County, Hydrologic Unit 07130005, on left bank at upstream side of culvert on county road, 2.0 mi southwest of Bryant, 2.1 mi downstream from Evelyn Branch, 4.5 mi northeast of Lewiston, and at mile 12.5.

DRAINAGE AREA.--41.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WDR IL-81-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 504.54 ft National Geodetic Vertical Datum of 1929 (Metropolitan Sanitary District of Greater Chicago bench mark).

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--12 years (water years 1973-84), 41.7 ft^3/s, 13.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s June 23, 1974, gage height, 12.90 ft; maximum gage height, 13.22 ft Apr. 2, 1983; minimum daily discharge, 1.6 ft^3/s Sept. 21, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 13	--	314	ice jam	Apr. 22	1315	585	10.77
Mar. 19	2145	404	9.91	May 20	0800	*860	*12.17

Minimum daily discharge, 1.6 ft^3/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	16	22	21	15	46	63	72	53	31	18	2.8
2	8.2	21	33	20	18	43	60	63	44	29	17	2.5
3	7.9	13	22	19	20	38	85	64	41	27	17	3.7
4	12	9.3	22	18	22	38	139	80	38	28	19	4.0
5	11	7.9	19	20	25	41	123	68	35	29	16	4.3
6	12	7.4	24	24	29	36	94	61	34	33	13	4.1
7	13	8.4	18	22	35	34	79	60	41	30	13	5.5
8	14	8.4	14	20	25	34	74	53	107	28	18	6.2
9	15	7.4	12	18	20	32	91	47	145	26	15	7.5
10	14	20	9.9	18	29	34	84	46	112	25	16	4.9
11	16	16	76	17	40	33	76	48	88	30	16	5.8
12	23	10	59	16	56	28	93	50	76	31	14	4.4
13	22	9.0	36	15	80	34	94	45	68	26	13	2.8
14	19	8.7	30	14	66	31	80	42	63	23	14	3.6
15	20	8.2	25	13	56	51	96	37	63	34	14	4.2
16	21	8.2	21	13	64	124	106	35	74	33	13	2.1
17	23	13	22	12	74	84	97	33	61	26	12	1.8
18	23	18	25	12	86	71	87	32	55	22	15	1.8
19	25	18	30	11	100	174	94	34	50	19	12	1.8
20	31	29	42	11	110	289	101	556	47	20	7.6	1.7
21	34	22	40	10	94	163	93	210	46	22	6.7	1.6
22	34	18	36	9.8	84	122	465	120	44	18	5.8	2.1
23	28	74	33	9.4	85	104	248	101	54	18	5.7	3.0
24	22	32	31	9.0	80	92	164	82	55	17	5.2	2.6
25	36	19	29	9.2	63	154	126	76	49	17	4.9	2.5
26	28	14	28	9.6	54	123	111	95	44	28	4.7	3.1
27	22	40	26	11	50	114	102	67	41	39	4.9	3.3
28	21	86	25	16	49	101	87	68	38	25	5.7	3.1
29	20	40	24	22	45	84	78	66	37	21	6.8	3.1
30	19	25	23	30	---	75	90	55	33	19	4.7	2.6
31	17	---	22	17	---	68	---	55	---	18	3.9	---
TOTAL	618.7	626.9	878.9	487.0	1574	2495	3380	2521	1736	792	351.6	102.5
MEAN	20.0	20.9	28.4	15.7	54.3	80.5	113	81.3	57.9	25.5	11.3	3.42
MAX	36	86	76	30	110	289	465	556	145	39	19	7.5
MIN	7.6	7.4	9.9	9.0	15	28	60	32	33	17	3.9	1.6
CFSM	.49	.51	.69	.38	1.32	1.95	2.74	1.97	1.41	.62	.27	.08
IN.	.56	.57	.79	.44	1.42	2.25	3.05	2.28	1.57	.72	.32	.09

CAL YR 1983	TOTAL	16410.9	MEAN	45.0	MAX	1010	MIN	4.6	CFSM	1.09	IN.	14.82
WTR YR 1984	TOTAL	15563.6	MEAN	42.5	MAX	556	MIN	1.6	CFSM	1.03	IN.	14.05

05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: December 1971 to current year.

REMARKS.--Suspended-sediment samples were collected every other day by a local observer with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,760 mg/L May 8, 1973; minimum daily mean, 3 mg/L Feb 4, 1972, Mar. 1-9, 1978.
SEDIMENT LOADS: Maximum daily, 12,500 tons May 8, 1973; minimum daily, 0.05 ton Feb. 18, 1980.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,360 mg/L Apr. 22; minimum daily mean, 7 mg/L Nov. 6, 16, 17.
SEDIMENT LOADS: Maximum daily, 3,220 tons Apr. 22; minimum daily, 0.12 ton Sept. 20, 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)
NOV												
10...	0845	81700	80010	19	620	7.5	11.5	--	7.3	--	--	--
10...	0900	81700	17002	19	620	7.5	11.5	--	7.3	25	500	.00
DEC												
20...	1400	81700	17003	42	--	--	.0	--	--	--	--	--
21...	1245	81700	17002	E40	1950	8.0	.0	--	--	23	1200	.00
21...	1250	81700	80010	E40	1950	8.0	.0	--	--	--	--	--
JAN												
31...	1450	81700	17003	17	--	--	.0	--	--	--	--	--
FEB												
02...	1100	81700	17002	E18	1360	8.3	.5	--	14.5	13	<10	.00
02...	1105	81700	80010	E18	--	--	--	--	--	--	--	--
MAR												
23...	1100	81700	17002	103	1060	7.7	5.0	--	12.7	18	6200	.00
23...	1205	81700	80010	103	1060	7.7	5.0	--	12.7	--	--	--
28...	1340	81700	17003	101	--	--	7.5	--	--	--	--	--
MAY												
01...	1445	81700	17003	70	--	--	14.5	--	--	--	--	--
03...	0900	81700	17002	60	1300	7.3	14.5	--	8.1	11	1000	.00
03...	0905	81700	80010	60	1300	7.3	14.5	--	8.1	--	--	--
31...	1000	81700	17002	51	1250	7.7	14.5	--	10.4	16	--	.00
31...	1005	81700	80010	51	1250	7.7	14.5	--	10.4	--	--	--
JUN												
28...	1715	81700	17003	38	--	--	24.0	--	--	--	--	--
JUL												
12...	0930	81700	80010	32	1230	8.4	22.5	--	7.4	--	--	--
12...	1000	17002	17002	32	1230	8.4	22.5	--	7.4	22	2200	.00
AUG												
07...	1540	81700	17003	13	--	--	27.0	--	--	--	--	--
23...	1000	81700	17002	5.8	1710	8.0	19.5	5.9	--	13	240	.00
23...	1015	81700	80010	5.8	1710	8.0	19.5	--	--	--	--	--
23...	1015	81700	80010	5.8	--	--	--	--	--	--	--	--
SEP												
19...	1430	81700	17003	1.8	--	--	--	--	--	--	--	--

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05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
NOV												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	180	94	83	9.1	243	620	37	13	1.6	<.100	<.001	--
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	140	71	82	6.7	257	430	15	1	6.7	.370	.003	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
31...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
02...	150	75	87	5.9	273	480	5	0	2.6	.690	.012	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
23...	120	58	47	4.1	227	340	68	8	3.8	<.100	<.001	.200
23...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
03...	130	57	52	5.5	258	--	93	19	3.1	.100	<.001	.100
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	140	70	52	4.2	261	--	--	--	3.6	<.100	<.001	.250
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	140	72	72	6.5	250	440	55	47	1.9	.120	.013	.670
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
23...	190	92	93	8.4	290	710	25	20	1.8	<.100	<.004	.560
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
19...	--	--	--	--	--	--	--	--	--	--	--	--

05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	960	60	<1	610	<3	<5	<5	<5	2100	<50
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
21...	--	290	69	<1	500	<3	<5	<5	<5	620	<50
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	--	67	51	<1	460	<3	<5	<5	<5	450	<50
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	.080	880	65	<1	340	<3	<5	<5	<5	1900	<50
23...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
03...	.090	1200	68	<1	420	<3	9	<5	<5	2400	<50
03...	--	--	--	--	--	--	--	--	--	--	--
31...	.140	580	69	<1	370	<3	<5	<5	<5	1100	<50
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	.580	1200	71	<1	570	<3	7	<5	<5	1600	<50
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
23...	.480	330	75	<1	670	<3	<5	<5	<5	520	<50
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	--	--	--	--	--	--	--	--	--	--	--

05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
10...	--	--	--	--	--	--	--	7.6	--	--	--
10...	450	<.1	5	<3	870	<5	<100	--	--	--	--
DEC											
20...	--	--	--	--	--	--	--	--	30	3.4	97
21...	420	<.1	8	<3	640	<5	<50	--	--	--	--
21...	--	--	--	--	--	--	--	2.9	--	--	--
JAN											
31...	--	--	--	--	--	--	--	--	5	.23	95
FEB											
02...	550	<.1	9	<3	620	<5	<50	--	--	--	--
02...	--	--	--	--	--	--	--	4.2	--	--	--
MAR											
23...	380	1.0	<5	<3	510	6	<100	--	--	--	--
23...	--	--	--	--	--	--	--	4.7	--	--	--
28...	--	--	--	--	--	--	--	--	80	22	96
MAY											
01...	--	--	--	--	--	--	--	--	50	9.5	92
03...	440	<.1	<5	<3	640	6	<100	--	--	--	--
03...	--	--	--	--	--	--	--	4.8	--	--	--
31...	380	<.1	8	<3	600	<5	<50	--	--	--	--
31...	--	--	--	--	--	--	--	3.3	--	--	--
JUN											
28...	--	--	--	--	--	--	--	--	180	18	99
JUL											
12...	--	--	--	--	--	--	--	4.8	--	--	--
12...	290	<.1	7	<3	780	<5	<50	--	--	--	--
AUG											
07...	--	--	--	--	--	--	--	--	16	.56	92
23...	360	<.1	8	<3	1200	<5	<50	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	4.3	--	--	--
SEP											
19...	--	--	--	--	--	--	--	--	19	.09	83

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05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOSPHORUS, TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)
AUG										
23...	1015	5.0	7.6	.0	370	<1	<1	20	10	<10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)
AUG										
23...	5700	20	760	.03	29	2	<.1	7.0	<.1	<.1

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG										
23...	<.1	.7	2.5	<.1	<.1	<.1	<.1	<.1	<.1	<.1

DATE	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	PERTHANE IN BOTTOM MATERIL (UG/KG) (81886)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG) (39731)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG) (39741)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39761)
AUG									
23...	<.1	<.1	<.1	<1.00	<10	<.1	<.1	<.1	<.1

05570370 BIG CREEK NEAR BRYANT, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	7.6	42	.86	16	24	1.0	22	19	1.1
2	8.2	38	.84	21	30	1.7	33	22	2.0
3	7.9	35	.75	13	20	.70	22	24	1.4
4	12	32	1.0	9.3	13	.33	22	25	1.5
5	11	30	.89	7.9	9	.19	19	26	1.3
6	12	28	.91	7.4	7	.14	24	25	1.6
7	13	26	.91	8.4	10	.23	18	24	1.2
8	14	23	.87	8.4	16	.36	14	20	.76
9	15	21	.85	7.4	16	.32	12	14	.45
10	14	22	.83	20	53	3.1	9.9	12	.32
11	16	26	1.1	16	20	.97	76	335	83
12	23	39	2.4	10	11	.30	59	137	25
13	22	34	2.0	9.0	10	.24	36	54	5.2
14	19	21	1.1	8.7	9	.21	30	46	3.7
15	20	18	.97	8.2	8	.18	25	41	2.8
16	21	19	1.1	8.2	7	.15	21	37	2.1
17	23	22	1.4	13	7	.25	22	34	2.0
18	23	21	1.3	18	8	.39	25	32	2.2
19	25	18	1.2	18	8	.39	30	31	2.5
20	31	18	1.5	29	37	2.9	42	30	2.4
21	34	22	2.0	22	18	1.1	40	26	2.8
22	34	27	2.5	18	12	.58	36	25	2.4
23	28	30	2.3	74	631	150	33	24	2.1
24	22	27	1.6	32	82	8.1	31	25	2.1
25	36	21	2.0	19	34	1.7	29	23	1.8
26	28	15	1.1	14	29	1.1	28	26	2.0
27	22	14	.63	40	258	61	26	25	1.8
28	21	17	.96	86	336	93	25	23	1.6
29	20	20	1.1	40	100	12	24	22	1.4
30	19	22	1.1	25	35	2.4	23	23	1.4
31	17	23	1.1	---	---	---	22	20	1.2
TOTAL	618.7	---	39.37	626.9	---	345.03	878.9	---	163.13
		JANUARY			FEBRUARY			MARCH	
1	21	21	1.2	15	4	.20	46	45	5.6
2	20	20	1.1	18	6	.30	43	55	6.4
3	19	19	.97	20	21	1.1	38	63	6.5
4	18	21	1.0	22	19	1.1	38	59	6.1
5	20	57	3.1	25	11	.70	41	57	6.3
6	24	52	3.4	29	18	1.4	36	55	5.3
7	22	49	2.9	35	26	2.5	34	53	4.9
8	20	46	2.5	25	24	1.6	34	52	4.0
9	18	45	9.4	20	24	4.1	32	49	4.2
10	18	48	9.6	29	31	7.9	34	47	4.3
11	17	44	8.8	40	43	4.6	33	48	4.3
12	16	40	7.8	56	234	82	28	45	3.4
13	15	38	7.4	80	214	76	34	44	4.0
14	14	36	6.8	66	87	16	31	50	4.2
15	13	33	6.1	56	78	12	51	275	69
16	13	30	5.8	64	65	11	124	552	205
17	12	28	5.1	74	90	18	84	203	46
18	12	27	4.9	86	1030	322	71	148	28
19	11	26	4.6	100	514	156	174	1410	1120
20	11	25	4.4	110	158	47	289	775	683
21	10	24	4.1	94	97	25	163	220	97
22	9.8	23	4.0	84	80	18	122	148	49
23	9.4	23	4.2	85	79	18	104	118	33
24	9.0	26	5.0	80	57	12	92	109	27
25	9.2	33	6.7	63	45	7.7	154	393	172
26	9.6	33	6.9	54	47	6.9	123	136	49
27	11	27	5.8	50	43	5.8	114	91	28
28	16	16	3.3	49	42	5.6	101	81	22
29	22	10	2.1	45	41	5.0	84	69	16
30	30	7	1.4	---	---	---	75	65	13
31	17	5	.96	---	---	---	68	68	12
TOTAL	487.0	---	141.33	1574	---	869.50	2495	---	2739.3

05570370 BIG CREEK NEAR BRYANT, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	63	72	12	72	77	15	53	150	21
2	60	70	11	63	100	17	44	145	17
3	85	197	53	64	122	21	41	140	15
4	139	254	97	80	110	24	38	135	14
5	123	133	45	68	116	22	35	140	13
6	94	120	30	61	116	19	34	147	13
7	79	113	24	60	115	19	41	149	16
8	74	105	21	53	100	14	107	853	270
9	91	118	29	47	85	11	145	589	232
10	84	109	25	46	90	11	112	251	78
11	76	108	22	48	102	13	88	200	48
12	93	147	40	50	105	14	76	180	37
13	94	136	35	45	125	15	68	175	32
14	80	112	24	42	110	12	63	140	24
15	96	110	29	37	91	9.1	63	145	25
16	106	83	24	35	95	9.0	74	150	30
17	97	74	19	33	112	10	61	140	23
18	87	67	16	32	100	8.6	55	135	20
19	94	100	26	34	89	8.2	50	125	17
20	101	92	25	556	1690	2670	47	100	13
21	93	76	19	210	456	289	46	95	12
22	465	2360	3220	120	252	82	44	90	11
23	268	496	359	101	220	60	54	95	14
24	164	239	103	82	193	43	55	100	15
25	126	203	67	76	187	39	49	95	13
26	111	182	53	95	217	58	44	89	11
27	102	165	44	67	146	26	41	80	8.9
28	87	151	34	68	140	26	38	75	7.7
29	78	144	30	66	138	25	37	73	7.3
30	90	125	23	55	135	24	33	65	5.8
31	---	---	---	55	143	21	---	---	---
TOTAL	3380	---	4559	2521	---	3634.9	1736	---	1063.7
		JULY			AUGUST			SEPTEMBER	
1	31	60	5.0	18	58	2.8	2.8	30	.23
2	29	55	4.3	17	55	2.5	2.5	32	.22
3	27	50	3.6	17	45	2.1	3.7	30	.30
4	28	45	3.4	19	40	2.1	4.0	28	.30
5	29	43	3.4	16	42	1.8	4.3	30	.35
6	33	42	3.7	13	45	1.6	4.1	35	.39
7	30	45	3.6	13	47	1.6	5.5	33	.49
8	28	48	3.6	18	48	2.3	6.2	31	.52
9	26	40	2.8	15	45	1.8	7.5	37	.75
10	25	45	3.0	16	35	1.5	4.9	45	.60
11	30	53	4.3	16	38	1.6	5.8	41	.64
12	31	55	4.6	14	40	1.5	4.4	45	.53
13	26	57	4.0	13	44	1.5	2.8	48	.36
14	23	56	3.5	14	40	1.5	3.6	49	.48
15	34	55	5.0	14	38	1.4	4.2	35	.40
16	33	54	4.8	13	37	1.3	2.1	29	.16
17	26	59	4.1	12	37	1.2	1.8	37	.18
18	22	63	3.7	15	36	1.5	1.8	30	.15
19	19	65	3.3	12	35	1.1	1.8	28	.14
20	20	68	3.7	7.6	33	.68	1.7	27	.12
21	22	60	3.6	6.7	35	.63	1.6	28	.12
22	18	45	2.2	5.8	30	.47	2.1	35	.20
23	18	70	3.4	5.7	29	.45	3.0	37	.30
24	17	68	3.1	5.2	33	.46	2.6	39	.27
25	17	53	2.4	4.9	37	.49	2.5	40	.27
26	28	105	9.5	4.7	39	.49	3.1	41	.34
27	39	89	10	4.9	45	.60	3.3	38	.34
28	25	52	3.5	5.7	40	.62	3.1	39	.33
29	21	55	3.1	6.8	35	.64	3.1	27	.23
30	19	50	2.6	4.7	37	.47	2.6	26	.18
31	18	48	2.3	3.9	38	.40	---	---	---
TOTAL	792	---	123.1	351.6	---	39.10	102.5	---	9.89
YEAR	15563.6		13727.35						

BEST COPY AVAILABLE

05570380 SLUG RUN NEAR BRYANT, IL

LOCATION.--Lat 40°28'24", long 90°08'37", in SE¼NE¼ sec.27, T.6 N., R.3 E., Fulton County, Hydrologic Unit 07130005, on left bank at upstream side of concrete curb on private road, 1.3 mi upstream from mouth and 2.5 mi northwest of Bryant.

DRAINAGE AREA.--7.12 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1975 to current year.

REVISED RECORDS.--WDR IL-81-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 523.25 ft National Geodetic Vertical Datum of 1929 (Metropolitan Sanitary District of Greater Chicago bench mark).

REMARKS.--Water-discharge records fair except those for winter periods and those for period of no gage-height record, June 1 to July 10, which are poor.

AVERAGE DISCHARGE.--9 years (water years 1976-84), 5.17 ft³/s, 9.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 322 ft³/s May 1, 1983, gage height, 6.41 ft; minimum, 0.06 ft³/s Dec. 21, 1981, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 151 ft³/s May 11, gage height, 5.99 ft; minimum, 0.40 ft³/s Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	3.3	6.4	2.9	3.1	5.4	8.5	12	9.0	2.5	1.1	.63
2	1.6	3.3	6.0	3.0	2.7	5.0	22	10	8.0	1.8	1.1	.76
3	1.6	3.0	6.8	3.1	2.4	4.7	17	12	7.4	1.5	.93	.63
4	2.4	3.3	7.4	3.2	5.1	4.5	21	13	6.8	2.2	.93	.63
5	2.4	3.0	7.5	3.3	4.5	4.3	16	12	6.0	2.0	.93	.63
6	2.1	2.7	7.3	3.4	3.8	4.0	12	11	7.8	2.8	.93	.63
7	2.1	2.7	6.9	3.6	3.4	3.9	8.5	10	11	2.4	.93	.76
8	1.6	2.7	6.1	3.7	3.0	3.6	11	8.5	18	1.8	.93	1.6
9	1.1	2.4	5.9	3.4	2.8	3.5	16	8.0	15	1.5	.93	1.3
10	.93	5.4	5.9	3.2	4.2	3.4	13	8.0	12	3.0	.93	1.6
11	.93	3.7	19	2.9	6.0	3.3	11	33	10	2.4	.76	1.6
12	1.3	3.0	12	2.7	8.8	3.1	13	30	8.8	1.8	.76	1.3
13	.93	3.0	9.2	2.5	12	3.0	15	19	7.4	1.6	.63	1.3
14	1.3	2.7	9.0	2.4	10	3.5	15	16	6.0	1.6	.63	1.3
15	1.1	2.1	8.1	2.2	8.6	5.4	15	15	6.4	3.3	.63	1.3
16	.76	1.8	7.1	2.1	11	7.8	15	14	7.0	2.4	.50	1.1
17	.63	2.4	6.5	2.0	14	7.0	12	9.0	5.8	1.8	.63	.76
18	1.3	2.7	5.8	1.9	19	6.0	11	6.0	4.5	2.1	1.3	.76
19	1.6	2.7	5.9	1.8	25	14	10	20	5.0	2.1	.93	.76
20	2.4	4.9	6.0	1.7	16	34	17	40	6.0	2.1	1.1	.76
21	4.1	4.1	5.3	1.6	10	28	16	30	8.0	2.4	.76	.76
22	4.1	3.0	5.0	1.5	14	22	42	37	7.2	2.4	.76	1.1
23	4.1	14	4.6	1.5	20	18	25	20	6.8	1.8	.76	1.3
24	2.7	8.2	4.3	1.8	15	14	20	9.6	4.5	1.6	.50	1.3
25	2.1	6.4	4.0	2.2	11	20	16	11	3.0	1.8	.50	2.1
26	2.1	5.6	3.8	2.8	9.0	16	15	12	3.5	4.1	.50	2.1
27	2.1	12	3.5	3.4	7.4	17	20	10	4.0	3.0	.63	1.3
28	1.8	14	3.3	4.3	6.0	15	16	8.0	4.0	2.4	.63	.93
29	2.1	10	3.1	5.0	5.8	12	16	10	4.0	1.8	.63	.50
30	1.8	7.7	3.0	4.3	---	9.8	15	13	3.3	1.6	.63	.63
31	2.7	---	2.8	3.6	---	9.1	---	10	---	1.3	.63	---
TOTAL	59.88	145.8	197.5	87.0	263.6	310.3	480.0	477.1	216.2	66.9	24.44	32.13
MEAN	1.93	4.86	6.37	2.81	9.09	10.0	16.0	15.4	7.21	2.16	.79	1.07
MAX	4.1	14	19	5.0	25	34	42	40	18	4.1	1.3	2.1
MIN	.63	1.8	2.8	1.5	2.4	3.0	8.5	6.0	3.0	1.3	.50	.50
CFSM	.27	.68	.89	.39	1.28	1.40	2.25	2.16	1.01	.30	.11	.15
IN.	.31	.76	1.03	.45	1.38	1.62	2.51	2.49	1.13	.35	.13	.17

CAL YR 1983	TOTAL	2903.28	MEAN	7.95	MAX	128	MIN	.63	CFSM	1.12	IN. 15.17
WTR YR 1984	TOTAL	2360.85	MEAN	6.45	MAX	42	MIN	.50	CFSM	.91	IN. 12.33

05570380 SLUG RUN NEAR BRYANT, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV											
10...	0915	81700	80010	5.4	1730	7.9	10.0	--	9.2	--	--
10...	1000	81700	17002	5.4	1730	7.9	10.0	--	9.2	23	450
DEC											
22...	0945	81700	17002	5.0	1300	7.7	.0	--	13.1	14	<10
22...	0950	81700	80010	5.0	1300	7.7	.0	--	13.1	--	--
FEB											
02...	1000	81700	17002	2.7	1950	8.0	.5	--	--	14	20
02...	1005	81700	80010	2.7	1950	8.0	.5	--	--	--	--
MAR											
23...	1000	81700	17002	12	1670	7.8	5.0	--	12.1	12	500
23...	1105	81700	80010	12	1670	7.8	5.0	--	12.1	--	--
MAY											
03...	1000	81700	17002	12	1690	7.3	14.5	--	8.3	13	K90
03...	1005	81700	80010	12	1690	7.3	14.5	--	8.3	--	--
31...	0900	81700	17002	12	1750	7.8	16.0	--	10.0	9	--
JUL											
12...	1100	81700	17002	1.8	1740	8.5	23.5	--	8.6	14	1200
12...	1105	81700	80010	1.8	1740	8.5	23.5	--	8.6	--	--
AUG											
23...	1100	81700	17002	.76	1970	8.6	18.5	4.4	--	7	330
23...	1115	81700	80010	.76	1970	8.6	18.5	--	--	--	--

DATE	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	.00	210	160	78	8.6	247	910	24	4	<.10	.150
DEC											
22...	.00	190	150	98	8.0	279	920	4	1	.22	<.100
22...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	.00	200	170	97	7.8	312	990	2	0	.17	<.100
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	.00	170	130	74	6.2	256	780	14	1	.11	<.100
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	.00	170	100	72	7.1	270	--	11	3	.12	<.100
03...	--	--	--	--	--	--	--	--	--	--	--
31...	.00	170	130	78	5.9	274	--	--	--	<.10	<.100
JUL											
12...	.00	180	140	95	7.3	273	850	7	5	.13	<.100
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	.00	210	140	73	7.1	287	970	11	9	<.10	<.100
23...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

05570380 SLUG RUN NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	.001	--	--	100	41	<1	600	<3	<5	<5	<5
DEC											
22...	<.001	--	--	56	40	<2	670	<3	8	<5	<5
22...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	<.001	--	--	<50	38	<1	680	<3	<5	<5	<5
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	<.001	.050	.010	170	31	<1	510	<3	<5	<5	<5
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	<.001	.020	.010	230	28	<1	540	<3	15	<5	<5
03...	--	--	--	--	--	--	--	--	--	--	--
31...	<.002	.040	.010	220	32	<1	560	<3	<5	<5	<5
JUL											
12...	<.015	.030	.050	150	40	<1	720	<3	<5	<5	<5
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	<.013	.060	.040	110	46	<1	570	4	<5	<5	<5
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV										
10...	--	--	--	--	--	--	--	--	--	5.8
10...	410	<50	370	<.1	<5	<3	870	<5	<50	--
DEC										
22...	170	<50	370	<.1	10	<3	900	<5	<50	--
22...	--	--	--	--	--	--	--	--	--	5.2
FEB										
02...	210	<50	500	<.1	10	<3	850	<5	<50	--
02...	--	--	--	--	--	--	--	--	--	3.5
MAR										
23...	340	<50	300	1.6	<5	<3	770	6	<50	--
23...	--	--	--	--	--	--	--	--	--	3.8
MAY										
03...	330	<100	270	<.1	7	4	800	10	<50	--
03...	--	--	--	--	--	--	--	--	--	3.7
31...	370	<50	230	<.1	<5	<3	800	<5	<50	3.1
JUL										
12...	270	<50	210	<.1	<5	<3	980	<5	<50	--
12...	--	--	--	--	--	--	--	--	--	7.0
AUG										
23...	230	<50	230	<.1	<5	<3	1100	<5	<50	--
23...	--	--	--	--	--	--	--	--	--	2.5

05570520 ILLINOIS RIVER AT POWER COMPANY AT HAVANA, IL

LOCATION.--Lat 40°16'49", long 90°04'53", in NW¼SE¼ sec.11, T.21 N., R.9 E., Mason County, Hydrologic Unit 07130003, at the Illinois Power Company water intake, 1.3 mi south of Havana, 1.9 mi downstream from Spoon River, and at mile 118.6.

DRAINAGE AREA.--18,300 mi^2, approximately.

PERIOD OF RECORD.--Water years 1978 to current year.

REVISED RECORDS.--WDR IL-81-2: 1980.

REMARKS.--Water-discharge records from Illinois River at Kingston Mines (station 05568500) and Spoon River at Seville (station 05570000) were used to estimate mean daily discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
OCT 24...	1100	17002	17002	11900	598	7.2	11.5	6.9	7.8	--	K850	--
DEC 20...	1300	17002	17002	30000	662	7.4	2.0	1.7	11.8	20	K20	--
FEB 29...	1400	17002	17002	11000	656	7.3	3.0	2.9	11.8	15	K40	260
APR 09...	1200	17002	17002	46700	610	7.1	9.0	5.1	--	18	K20	290
30...	1200	17002	17002	41300	714	7.6	14.0	13	8.2	16	K200	390
JUN 07...	1200	17002	17002	36900	574	7.3	22.0	.90	6.5	15	K220	250
JUL 05...	1200	17002	17002	10000	680	7.6	23.0	18	4.2	30	K120	280
AUG 08...	1200	17002	17002	8210	677	7.7	30.0	5.3	5.3	27	K80	250
SEP 05...	1130	17002	17002	9590	675	7.6	23.5	36	5.5	25	K240	240

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 24...	64	--	27	--	49	--	4.6	--	94	24	2.6	.260
DEC 20...	71	--	30	--	33	--	3.6	--	42	2	6.1	.430
FEB 29...	64	62	26	25	29	29	3.1	3.0	35	27	6.2	.430
APR 09...	69	68	29	29	22	22	2.8	2.5	50	7	6.9	.150
30...	88	87	41	41	35	34	3.4	3.0	90	15	6.0	.180
JUN 07...	64	60	27	25	22	22	3.5	2.9	116	19	6.9	<.100
JUL 05...	67	64	30	29	35	35	4.0	3.4	134	113	4.1	<.100
AUG 08...	59	57	27	26	45	45	4.5	4.2	62	10	1.5	.180
SEP 05...	56	54	25	25	44	43	4.6	4.5	52	45	1.3	.260

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05570520 ILLINOIS RIVER AT POWER COMPANY AT HAVANA, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
OCT 24...	<.001	--	--	1100	--	56	--	<1	--	190	--	<3
DEC 20...	.001	--	--	950	--	55	--	<2	--	100	--	4
FEB 29...	<.001	.220	.050	900	71	52	43	<1	<1	67	69	<3
APR 09...	<.001	.170	.100	1100	<50	53	41	<1	<1	83	78	<3
30...	.002	.200	.100	2200	<50	69	47	<1	<.5	110	100	<3
JUN 07...	<.001	.250	.120	2900	<50	80	53	<1	<2	96	88	5
JUL 05...	<.002	.300	.140	2900	<50	93	63	<1	<1	130	130	<3
AUG 08...	.007	.300	.170	1600	<50	75	58	<2	<2	190	190	<3
SEP 05...	.005	.320	.190	1300	<50	67	54	<1	<.5	180	180	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT 24...	--	<5	--	<5	--	6	--	1600	--	<50	--	120
DEC 20...	--	11	--	<5	--	6	--	1500	--	<50	--	51
FEB 29...	<3	<5	<5	<5	<5	<5	<5	1200	<50	<50	<50	54
APR 09...	<3	<5	<5	<5	<5	24	<5	1600	<50	<50	<50	63
30...	<3	<5	<5	<5	<5	<5	<5	3000	<50	<50	<50	120
JUN 07...	<3	16	<5	9	<5	7	<5	3300	<50	<100	<50	120
JUL 05...	<3	<5	<5	<5	<5	<5	<5	3500	<50	<50	<50	200
AUG 08...	<3	<5	<5	<5	<5	6	<5	2100	<50	<50	<50	140
SEP 05...	<3	<5	<5	<5	<5	<5	<5	1400	<50	<50	<50	140

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 24...	--	<.1	21	--	<3	--	260	--	<5	--	<100	--
DEC 20...	--	<.1	15	--	<3	--	210	--	<5	--	120	--
FEB 29...	11	<.1	7	<5	<3	<3	170	170	<5	<5	<50	<50
APR 09...	<5	<.1	25	<5	<3	<3	170	160	<5	<5	<50	<50
30...	11	<.1	<5	<5	<3	<3	210	200	<5	<5	<100	<100
JUN 07...	11	<.1	22	<5	4	<3	190	180	15	<5	<100	<50
JUL 05...	31	<.1	<5	<5	<3	<3	230	220	<5	<5	<100	<100
AUG 08...	20	<.1	<5	<5	<3	<3	270	260	<5	<5	<50	<50
SEP 05...	8	<.1	<5	<5	<3	<3	270	270	<5	<5	<50	<50

05570910 SANGAMON RIVER AT FISHER, IL

LOCATION.--Lat 40°18'40", long 88°19'20", in NE¼NW¼ sec.5, T.21 N., R.8 E., Champaign County, Hydrologic Unit 07130006, on downstream side of bridge on U.S. Highway 136, 1.2 mi east of Fisher, 8.8 mi west of Rantoul, and at mile 201.1.

DRAINAGE AREA.--240 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 683.23 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--6 years, 251 ft³/s, 14.20 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,380 ft³/s Mar. 4, 1979, gage height, 18.20 ft, from floodmark; minimum daily, 0.33 ft³/s Oct. 12, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 12	Unknown	1800	Unknown	May 21	0515	2830	13.78
Feb. 13	1715	5190	16.05	May 26	1145	*5310	*16.14

Minimum daily discharge, 1.2 ft³/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	9.0	175	70	46	94	240	263	552	84	12	4.7
2	4.4	8.7	148	66	52	94	264	251	446	78	13	4.3
3	4.4	15	132	63	60	94	230	252	371	75	12	4.1
4	1.4	19	154	61	76	94	338	247	327	78	9.5	3.4
5	1.4	13	258	58	70	91	338	222	297	73	18	3.2
6	1.4	8.7	354	70	60	88	259	205	266	67	26	2.7
7	1.6	9.4	324	80	52	80	251	200	243	60	22	2.8
8	1.6	9.3	302	82	45	72	275	189	230	53	21	3.5
9	1.6	8.0	249	77	170	64	264	182	843	48	20	7.6
10	1.2	11	210	72	337	58	276	176	1200	46	22	14
11	1.4	27	594	69	1060	50	249	175	478	44	14	7.3
12	3.6	29	1600	66	2630	61	267	180	302	51	11	5.8
13	4.4	26	1350	62	4740	97	272	164	259	41	8.0	4.2
14	6.3	28	1100	60	3530	122	252	157	228	34	6.0	3.3
15	5.8	22	830	56	1870	157	297	146	202	34	4.5	4.2
16	4.8	19	665	53	1350	145	256	142	191	33	6.0	4.2
17	4.0	16	475	50	1160	120	234	139	178	26	4.5	3.9
18	4.0	14	352	47	1030	118	214	137	166	28	3.0	3.2
19	4.0	14	310	43	983	121	236	137	151	24	3.2	2.7
20	4.4	58	260	41	866	142	224	902	140	23	3.4	2.5
21	17	141	220	38	623	118	263	2660	135	24	3.5	2.1
22	177	106	190	36	494	137	602	1970	136	18	3.7	2.2
23	171	126	165	34	420	371	975	2150	184	12	4.0	2.0
24	90	216	145	32	359	157	919	1820	331	9.4	3.6	2.4
25	58	151	130	32	310	143	711	1490	167	42	4.0	2.2
26	39	113	120	32	220	235	510	4740	126	55	4.5	2.0
27	28	121	105	33	244	197	408	3070	118	38	4.7	2.0
28	24	462	97	34	119	183	334	1560	105	27	4.8	2.0
29	19	411	88	36	100	224	293	1280	96	18	5.2	2.0
30	16	242	80	38	---	185	309	854	92	11	5.1	1.9
31	13	---	73	41	---	242	---	750	---	12	4.6	---
TOTAL	715.5	2453.1	11255	1632	23076	4154	10560	26810	8560	1266.4	286.8	112.4
MEAN	23.1	81.8	363	52.6	796	134	352	865	285	40.9	9.25	3.75
MAX	177	462	1600	82	4740	371	975	4740	1200	84	26	14
MIN	1.2	8.0	73	32	45	50	214	137	92	9.4	3.0	1.9
CFSM	.10	.34	1.51	.22	3.32	.56	1.47	3.60	1.19	.17	.04	.02
IN.	.11	.38	1.74	.25	3.58	.64	1.64	4.16	1.33	.20	.04	.02

CAL YR 1983	TOTAL	75370.8	MEAN	206	MAX	2930	MIN	1.2	CFSM	.86	IN.	11.68
WTR YR 1984	TOTAL	90881.2	MEAN	248	MAX	4740	MIN	1.2	CFSM	1.03	IN.	14.09

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05570910 SANGAMON RIVER AT FISHER, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 20...	1130	17002	17002	4.0	845	--	11.0	8.2	--	19	4200
DEC 07...	1000	17002	17002	325	569	7.2	3.0	6.1	12.8	12	2700
MAR 06...	1200	17002	17002	E88	605	7.5	1.0	1.2	13.1	2	440
APR 10...	1400	17002	17002	276	590	8.4	10.0	1.1	10.8	0	190
MAY 01...	1400	17002	17002	263	610	8.3	12.0	4.4	10.2	7	K90
JUN 20...	1000	17002	17002	140	661	7.4	23.5	2.4	7.2	18	900
JUL 19...	0800	17002	17002	26	--	8.4	21.0	3.0	6.6	16	200
AUG 23...	0800	17002	17002	3.6	701	7.6	20.5	22	6.0	18	K100
SEP 18...	1000	17002	17002	2.7	656	7.9	16.0	6.0	7.9	18	--

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT 20...	330	65	65	42	41	62	--	5.5	5.5	--	38
DEC 07...	300	70	69	31	30	5.5	5.6	1.4	1.2	--	28
MAR 06...	320	75	75	32	32	8.1	7.9	1.0	1.0	--	9
APR 10...	320	76	74	33	32	6.5	6.3	1.2	1.0	--	30
MAY 01...	320	75	74	34	33	5.3	5.2	1.1	.97	--	29
JUN 20...	340	79	79	35	34	8.3	8.2	1.9	1.2	--	130
JUL 19...	330	74	72	37	36	15	15	2.1	1.9	390	50
AUG 23...	300	65	60	40	37	36	34	3.5	2.6	--	92
SEP 18...	280	57	56	35	34	34	34	4.1	4.0	--	43

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05570910 SANGAMON RIVER AT FISHER, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)
OCT 20...	10	<.10	<.100	--	.80	--	.130	.050	880	93	81
DEC 07...	4	11	<.100	<.001	.90	12	.090	.040	1200	110	55
MAR 06...	1	10	<.100	<.001	.20	10	.040	.040	220	63	46
APR 10...	3	11	<.100	<.005	.60	12	.050	.020	710	110	51
MAY 01...	5	11	<.100	<.004	.50	12	.050	.030	370	<50	49
JUN 20...	20	12	<.100	<.001	1.0	13	.140	.050	3100	<50	92
JUL 19...	10	3.7	<.100	<.010	.50	4.2	.100	.060	1200	<50	78
AUG 23...	80	.53	<.100	<.002	2.0	2.5	.170	.100	3100	<50	97
SEP 18...	8	.12	<.100	<.002	.70	.82	.140	.060	590	<50	78

DATE	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT 20...	71	<1	<.5	150	200	<3	<3	<5	<5	<5
DEC 07...	45	<2	<2	<50	<50	<3	<3	<5	<5	<5
MAR 06...	43	<2	<1	<50	<50	<3	<3	<5	<5	<5
APR 10...	44	<1	<1	<50	<50	<3	<3	<5	<5	<5
MAY 01...	44	<1	<.5	<50	<50	<3	<3	<5	<5	<5
JUN 20...	65	<1	<.5	58	<50	4	<3	14	7	<5
JUL 19...	65	<1	<1	76	73	<3	<3	<5	<5	<5
AUG 23...	68	<1	<.5	120	110	<3	<3	<5	<5	<5
SEP 18...	67	<1	<.5	120	120	<3	<3	<5	<5	<5

05570910 SANGAMON RIVER AT FISHER, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT 20...	<5	<5	<5	970	<50	<50	<50	150	56	<.1
DEC 07...	<5	<5	<5	1300	<50	<50	<50	22	<5	--
MAR 06...	<5	<5	<5	260	<50	<50	<50	24	16	--
APR 10...	<5	<5	<5	840	<50	<50	<50	35	12	--
MAY 01...	<5	<5	<5	570	<50	<50	<50	37	17	--
JUN 20...	<5	<5	<5	3200	<50	<50	<50	110	11	--
JUL 19...	<5	8	<5	1100	<50	<50	<50	73	15	--
AUG 23...	<5	<5	<5	3200	<50	<50	<50	170	34	--
SEP 18...	<5	<5	<5	710	<50	<50	<50	90	15	--

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 20...	10	8	<3	<3	240	240	<5	<5	540	250
DEC 07...	<5	<5	<3	<3	120	120	<5	<5	--	--
MAR 06...	<5	<5	<3	<3	120	120	<5	<5	<50	<50
APR 10...	<5	<5	<3	<3	120	120	<5	<5	<50	<50
MAY 01...	<5	<5	<3	<3	120	120	<5	<5	<50	<50
JUN 20...	14	7	<3	<3	160	150	7	<5	<50	<50
JUL 19...	11	<5	<3	<3	190	190	<5	<5	<50	<50
AUG 23...	<5	<5	<3	<3	220	210	<5	<5	<100	<50
SEP 18...	<5	<5	<3	<3	230	220	<5	<5	<50	<50

05572000 SANGAMON RIVER AT MONTICELLO, IL

LOCATION.--Lat 40°01'51", long 88°35'20", in NE¼SW¼ sec.12, T.18 N., R.5 E., Piatt County, Hydrologic Unit 07130006, near center of span on downstream side of highway bridge, 0.5 mi west of Monticello and at mile 162.2.

DRAINAGE AREA.--550 mi².

PERIOD OF RECORD.--February 1908 to December 1912, June 1914 to current year. Monthly discharge only for some periods, published in WSP 1308. Published as "near Monticello" 1910-12.

REVISED RECORDS.--WSP 525: 1920. WSP 1115: 1946-47. WSP 1208: 1915-16, 1918-20, 1927, 1929, 1939. WSP 1508: 1908(M), 1917, 1928(M). WDR IL-81-2: 1909(P), 1912(P), 1915(P), 1919-32(P), 1935(P), 1937-38(P), 1940-41(P), 1944(P), 1946-47(P).

GAGE.--Water-stage recorder. Datum of gage is 625.89 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1964, nonrecording gage at site 0.2 mi downstream at same datum. Oct. 1, 1964, to Oct. 22, 1971, nonrecording gage at present site and datum.

REMARKS.--Records poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--74 years, 408 ft³/s, 10.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s Oct. 4, 1926, gage height, 18.50 ft, from graph based on gage readings, site then in use; maximum gage height, 18.55 ft May 16, 1968; minimum discharge, 0.2 ft³/s Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 14	1200	3520	13.58	Apr. 6	Unknown	2000	Unknown
Feb. 14	Unknown	9000	Unknown	Apr. 24	1015	1880	11.87
Mar. 23	1230	2600	12.74	May 22	Unknown	6000	Unknown
Mar. 30	Unknown	2900	Unknown	May 27	Unknown	*10000	Unknown

Minimum daily discharge, 1.2 ft³/s Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	48	559	250	160	350	1400	609	1720	143	38	5.5
2	2.0	59	414	240	170	310	1150	555	1270	134	31	5.5
3	4.9	55	346	230	190	260	1000	536	920	125	30	5.4
4	4.7	45	354	220	230	230	1150	513	760	152	29	6.9
5	4.4	35	463	220	290	270	1300	474	660	173	25	6.6
6	3.7	25	730	250	240	240	1500	432	591	142	26	6.5
7	2.8	20	1040	270	220	230	1200	409	538	122	38	6.5
8	1.7	25	1020	270	200	220	800	386	503	109	33	8.8
9	1.2	21	734	270	190	200	750	366	464	101	24	10
10	3.0	19	583	260	250	190	700	344	696	92	20	1
11	3.7	33	1410	250	600	180	650	337	991	90	16	15
12	4.7	50	2520	240	1500	170	600	326	784	84	15	15
13	3.6	80	2990	230	3500	190	700	300	521	80	14	18
14	2.8	70	3450	220	8800	250	820	290	452	75	13	17
15	2.4	60	2960	210	7800	320	960	290	399	75	16	13
16	2.2	52	2490	200	5800	782	860	290	365	69	16	10
17	3.7	45	2020	190	3000	832	760	280	343	65	14	13
18	4.6	40	1440	180	2300	832	660	280	321	61	14	10
19	5.9	34	1190	165	1800	832	590	270	298	54	12	9.5
20	14	30	850	155	1500	825	500	350	272	55	13	9.8
21	51	100	750	150	1390	824	595	1500	251	52	14	9.8
22	150	340	650	140	1340	809	1270	5800	242	48	14	8.3
23	440	280	600	135	1190	1400	1130	5000	232	48	15	8.1
24	330	240	580	130	955	1010	1470	4000	262	44	15	9.3
25	220	580	510	130	761	777	1610	3500	345	40	12	9.3
26	150	370	430	125	684	887	1490	3000	293	60	11	8.5
27	100	230	370	130	520	1020	1170	9000	212	77	12	9.8
28	85	450	350	130	420	1020	860	6000	186	77	11	11
29	71	1000	320	135	370	1420	704	4200	171	58	11	11
30	61	820	290	140	---	2000	654	2730	152	58	9.5	10
31	52	---	260	150	---	1700	---	2190	---	45	7.9	---
TOTAL	1788.2	5256	32673	6015	46370	20580	29003	54557	15214	2608	569.4	302.1
MEAN	57.7	175	1054	194	1599	664	967	1760	507	84.1	18.4	10.1
MAX	440	1000	3450	270	8800	2000	1610	9000	1720	173	38	18
MIN	1.2	19	260	125	160	170	500	270	152	40	7.9	5.4
CFSM	.10	.32	1.92	.35	2.91	1.21	1.76	3.20	.92	.15	.03	.02
IN.	.12	.36	2.21	.41	3.14	1.39	1.96	3.69	1.03	.18	.04	.02

CAL YR 1983	TOTAL 192035.4	MEAN	526	MAX	6980	MIN	1.2	CFSM .96	IN. 12.99
WTR YR 1984	TOTAL 214935.7	MEAN	587	MAX	9000	MIN	1.2	CFSM 1.07	IN. 14.54

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05572125 SANGAMON RIVER AT ALLERTON PARK NEAR MONTICELLO, IL

LOCATION.--Lat 40°00'08", long 88°38'07", in SE¼ sec.21, T.18 N., R.5 E., Piatt County, Hydrologic Unit 07130006, at bridge on county road, 0.1 mi downstream from Wildcat Creek, 3.4 mi upstream from Willow Branch, 3.6 mi southwest of Monticello, and at mile 158.0.

DRAINAGE AREA.--573 mi^2.

PERIOD OF RECORD.--Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV 08...	1000	17002	17002	E25	689	8.4	10.0	6.8	7.0	15	160
DEC 21...	1100	17002	17002	E750	704	7.3	1.0	--	7.9	--	--
MAR 06...	0900	17002	17002	E240	582	7.7	1.0	--	13.1	5	K60
APR 10...	1200	17002	17002	E700	560	7.5	9.0	--	10.3	7	K50
MAY 01...	1200	17002	17002	E609	590	7.7	12.5	--	9.6	7	190
JUN 06...	1000	17002	17002	E591	603	7.7	20.0	--	7.5	13	440
27...	1000	17002	17002	E212	380	7.2	22.0	--	5.2	67	K1100
AUG 02...	1000	17002	17002	E31	625	7.9	23.0	--	6.3	15	K200
SEP 11...	1100	17002	17002	E15	696	7.7	21.0	11	6.3	19	460

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV 08...	360	120	.00	81	82	37	37	23	24	3.0	2.9
DEC 21...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	300	110	.00	70	69	30	30	9.6	9.5	1.0	.97
APR 10...	300	130	.00	73	70	32	31	7.9	7.7	1.3	1.1
MAY 01...	310	120	.00	72	71	33	32	5.8	5.8	1.1	1.0
JUN 06...	310	110	.00	72	72	31	31	8.4	8.2	1.7	.96
27...	190	81	.00	49	45	25	20	7.8	7.3	4.8	1.8
AUG 02...	290	73	.00	65	65	32	31	27	27	2.6	2.3
SEP 11...	300	66	.00	70	67	34	32	34	34	3.0	2.7

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05572125 SANGAMON RIVER AT ALLERTON PARK NEAR MONTICELLO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 08...	240	55	38	.2	22	5	3.4	<.100	<.005	--	.90
DEC 21...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	184	50	28	.2	13	1	9.7	<.100	<.001	--	.50
APR 10...	175	42	25	.2	42	3	9.8	<.100	<.001	--	.50
MAY 01...	191	46	23	.2	56	8	10	<.100	<.001	--	.60
JUN 06...	195	50	22	.2	124	15	11	<.100	<.002	--	1.0
27...	114	39	20	.2	562	480	6.8	<.100	<.001	--	2.1
AUG 02...	218	50	32	.2	77	13	1.6	<.100	<.004	--	.30
SEP 11...	234	54	51	.2	48	7	.44	.130	.003	.87	1.0

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
NOV 08...	4.3	.190	.150	420	<50	3	81	74	<1	<.5
DEC 21...	--	--	.050	--	--	--	--	--	--	--
MAR 06...	10	.060	.060	290	63	1	48	45	<2	<1
APR 10...	10	.070	.030	860	100	2	56	47	<1	<.5
MAY 01...	11	.070	.040	680	<50	<1	57	49	<1	<.5
JUN 06...	12	.150	.060	3000	69	2	87	61	<1	<.5
27...	8.9	.580	.080	15000	<50	6	200	42	<2	<.5
AUG 02...	1.9	.250	.180	1700	<50	4	90	73	<1	<.5
SEP 11...	1.4	.420	.270	2100	76	5	100	81	<1	<.5

DATE	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
NOV 08...	100	110	<3	<3	<5	<5	<5	<5	<5	<5
DEC 21...	--	--	--	--	--	--	--	--	--	--
MAR 06...	<50	<50	4	<3	<5	<5	<5	<5	<5	<5
APR 10...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
MAY 01...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
JUN 06...	50	<50	4	<3	19	12	12	9	7	<5
27...	85	64	15	<3	28	7	21	<5	17	<5
AUG 02...	130	130	<3	<3	7	<5	<5	<5	<5	<5
SEP 11...	140	130	3	<3	15	7	14	6	6	<5

05572125 SANGAMON RIVER AT ALLERTON PARK NEAR MONTICELLO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
NOV 08...	820	<50	<50	<50	88	57	<.1	<5	<5	<3
DEC 21...	--	--	--	--	--	--	--	--	--	--
MAR 06...	360	<50	<50	<50	28	16	<.1	7	9	<3
APR 10...	1000	<50	<50	<50	41	10	<.1	<5	<5	<3
MAY 01...	1000	<50	<50	<50	49	11	<.1	<5	<5	<3
JUN 06...	3000	<50	<100	<50	100	8	<.1	26	10	5
27...	17000	<50	180	<50	360	<5	<.1	52	<5	<3
AUG 02...	1900	<50	<50	<50	99	23	<.1	<5	<5	<10
SEP 11...	1900	<50	<100	<100	210	19	<.1	14	<5	9

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
NOV 08...	<3	160	160	<5	<5	120	100	<.01	<5	0
DEC 21...	--	--	--	--	--	--	--	<.01	<5	0
MAR 06...	<3	110	100	<5	<5	--	--	<.01	<5	0
APR 10...	<3	110	100	<5	<5	<50	<50	<.01	<5	0
MAY 01...	<3	110	110	<5	<5	<50	<50	<.01	<5	0
JUN 06...	5	130	130	14	9	<100	<50	<.01	<5	1
27...	<3	100	84	30	<5	170	<100	<.01	<5	1
AUG 02...	<3	170	170	<5	<5	<50	<50	<.01	<5	0
SEP 11...	5	190	180	14	6	<50	<50	<.01	<5	1

05573504 SANGAMON RIVER AT LAKE DECATUR WATER INTAKE AT DECATUR, IL

LOCATION.--Lat 39°49'44", long 88°57'35", in NE¼ sec.22, T.16 N., R.2 E., Macon County, Hydrologic Unit 07130006, at south edge of Decatur, 0.1 mi upstream from lower dam and 0.2 mi downstream from Lake Decatur Dam.

DRAINAGE AREA.--927 mi².

PERIOD OF RECORD.--Water years 1980 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site E 06.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 11...	1100	17002	17002	573	7.0	17.0	5.9	6.8	42	K30	260
DEC 05...	1200	17002	17002	496	8.3	3.0	3.0	12.5	13	K75	260
JAN 31...	1300	17002	17002	692	7.2	3.0	2.9	8.9	6	K20	340
MAR 05...	1400	17002	17002	605	7.6	2.0	1.2	12.6	4	<10	270
APR 09...	1300	17002	17002	520	8.1	9.5	4.1	11.5	6	<5	280
MAY 01...	1000	17002	17002	520	7.6	15.0	6.3	9.3	11	K10	260
JUN 27...	1300	17002	17002	557	8.0	26.0	1.9	6.5	18	K60	280
JUL 26...	1100	17002	17002	450	8.2	22.0	1.0	7.0	15	K20	220
AUG 23...	1300	17002	17002	455	7.8	24.0	9.5	4.2	12	K110	220

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT 11...	50	51	32	33	12	14	1.8	1.8	43	25
DEC 05...	59	58	28	27	14	14	2.3	2.3	44	29
JAN 31...	78	79	34	35	13	14	1.3	1.3	58	36
MAR 05...	66	64	29	27	7.9	7.8	1.1	1.1	44	24
APR 09...	67	65	29	28	6.6	6.6	1.4	1.2	39	22
MAY 01...	63	61	28	27	4.7	4.7	1.4	1.2	43	21
JUN 27...	65	64	29	29	7.7	7.6	1.6	1.4	43	20
JUL 26...	39	39	29	29	8.8	8.7	1.5	1.3	40	22
AUG 23...	39	39	29	29	9.8	9.5	1.5	1.4	40	24

K Results based on colony count outside the acceptable range (non-ideal colony count).

05573504 SANGAMON RIVER AT LAKE DECATUR WATER INTAKE AT DECATUR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)
OCT 11...	14	6	.32	<.100	<.001	.060	.020	420	93	59
DEC 05...	8	2	4.0	.180	.004	.130	.100	350	62	59
JAN 31...	1	0	9.0	<.100	<.001	.070	.040	95	<50	60
MAR 05...	12	2	6.8	<.100	<.001	.070	.060	360	58	51
APR 09...	38	4	9.3	<.100	<.002	.100	.060	1300	130	62
MAY 01...	46	12	9.9	<.100	<.001	.110	.060	960	<50	63
JUN 27...	19	14	9.1	<.100	<.006	.100	.060	870	<50	76
JUL 26...	10	3	4.9	<.100	<.007	.050	<.010	260	<50	55
AUG 23...	19	16	1.4	<.100	<.003	.080	.020	430	<50	61

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)
OCT 11...	51	<1	<1	76	87	<3	<3	<5	6	<5
DEC 05...	53	<1	<2	63	61	<3	<3	<5	<5	<5
JAN 31...	58	<1	<1	<50	<50	4	<3	<5	<5	<5
MAR 05...	46	<1	<1	<50	<50	<3	<3	<5	<5	<5
APR 09...	49	<1	<.5	70	50	<3	<3	<5	<5	<5
MAY 01...	50	<1	<.5	<50	<50	<3	<3	<5	<5	<5
JUN 27...	66	<1	<.5	<50	<50	<3	<3	6	<5	8
JUL 26...	51	<1	<1	55	53	<3	5	6	6	<5
AUG 23...	54	<1	<.5	53	53	<3	<3	<5	<5	<5

05573504 SANGAMON RIVER AT LAKE DECATUR WATER INTAKE AT DECATUR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 11...	<5	<5	<5	460	<50	<50	<50	120	10	<5
DEC 05...	<5	<5	<5	320	<50	<50	<50	24	<5	6
JAN 31...	<5	<5	<5	79	<50	<50	<50	71	62	<5
MAR 05...	<5	<5	<5	420	<50	<50	<50	40	24	<5
APR 09...	<5	<5	<5	1400	<50	<50	<50	67	18	<5
MAY 01...	<5	<5	<5	1300	<50	<50	<50	57	9	<5
JUN 27...	<5	<5	<5	770	<50	<50	<50	29	<5	10
JUL 26...	6	<5	<5	250	<50	<50	<50	40	<5	7
AUG 23...	<5	<5	<5	460	<50	<50	<50	85	<5	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 11...	16	<3	<3	110	110	<5	<5	<100	<50	1
DEC 05...	<5	<3	<3	110	110	<5	<5	<50	<50	0
JAN 31...	6	<3	<3	130	130	<5	<5	<50	<50	0
MAR 05...	<5	<3	<3	100	98	<5	<5	<100	<100	0
APR 09...	<5	<3	<3	100	98	<5	<5	<50	<50	0
MAY 01...	<5	<3	<3	97	94	<5	<5	<50	<50	0
JUN 27...	<5	4	<3	120	120	9	<5	<100	<100	0
JUL 26...	7	<3	4	100	97	<5	7	<50	<50	0
AUG 23...	<5	<3	<3	100	100	<5	<5	<100	<100	1

05573540 SANGAMON RIVER AT ROUTE 48 AT DECATUR, IL

LOCATION.--Lat 39°49'52", long 88°58'35", in NE¼NE¼ sec.21, T.16 N., R.2 E., Macon County, Hydrologic Unit 07130006, at south edge of Decatur, 1.2 mi downstream from dam and gage 05573505, 2.5 mi upstream from Stevens Creek, and at mile 129.0.

DRAINAGE AREA.--938 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 583.43 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lake Decatur Dam, 1.2 mi upstream. City of Decatur gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,400 ft^3/s May 2, 1983, gage height, 23.04 ft; minimum daily, 2.1 ft^3/s Nov. 24, 25, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,460 ft^3/s May 26, gage height, 19.80 ft; minimum daily, 2.1 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	3.6	1700	702	283	534	2240	1010	3000	20	6.7	3.9
2	4.2	10	1430	1630	253	586	1980	1080	2190	19	6.7	21
3	4.3	3.9	556	501	222	744	1480	793	2040	19	8.6	6.4
4	4.4	3.4	646	434	734	730	1650	496	1740	18	6.7	3.9
5	5.1	3.2	1050	255	1100	775	1520	512	812	17	6.1	4.1
6	5.6	3.4	778	19	350	891	1560	770	1000	17	5.8	34
7	4.5	3.9	553	18	397	752	1190	283	636	16	8.2	6.4
8	4.5	4.1	1600	24	883	565	1500	894	1340	16	4.8	36
9	4.7	4.3	1200	45	641	393	1140	345	447	16	4.5	10
10	4.9	31	1500	196	1430	694	1260	886	543	10	4.5	12
11	5.0	95	2200	69	1740	524	1160	410	1070	9.7	4.3	16
12	6.3	85	4000	316	2450	624	1300	29	737	8.6	4.1	5.5
13	5.0	87	5000	246	4700	388	1040	127	1180	7.6	3.9	5.0
14	4.7	83	4700	272	6170	617	1110	512	778	6.7	3.9	7.3
15	4.4	103	4200	260	6630	630	1130	23	262	6.1	3.9	5.8
16	4.3	105	3300	186	6430	3410	505	43	76	5.8	3.9	5.0
17	4.2	103	2600	262	5240	3310	920	210	601	5.8	3.9	4.5
18	4.3	105	2100	196	4490	3690	1250	178	476	5.3	4.8	4.5
19	5.2	126	1600	127	3350	3930	1030	209	77	5.0	4.8	4.1
20	9.9	136	1300	79	2850	5790	878	1840	705	4.8	4.5	3.9
21	293	109	858	90	2450	5200	1500	2250	429	4.5	4.5	3.6
22	220	107	476	118	2270	4290	1980	2420	121	4.3	19	3.4
23	6.1	400	12	159	2120	4220	2510	2980	310	16	5.0	4.3
24	4.8	300	3.2	172	1870	3930	2810	2910	459	6.7	4.1	13
25	4.3	900	36	189	1320	4260	2600	4000	114	6.4	4.1	4.3
26	3.9	700	80	191	1170	4130	2470	6740	267	10	4.1	2.6
27	3.9	600	318	192	1110	4300	2040	6380	158	6.1	3.6	3.4
28	4.1	1000	541	269	1060	3910	1700	6840	228	8.6	3.6	2.8
29	3.4	1500	445	326	949	3850	1080	6300	352	543	3.6	2.8
30	4.1	2050	909	170	---	3410	1120	5320	77	11	3.9	2.1
31	3.6	---	715	312	---	2480	---	3740	---	7.9	3.9	---
TOTAL	650.8	8764.8	46406.2	8025	64662	73557	45653	60530	22225	857.9	164.0	241.6
MEAN	21.0	292	1497	259	2230	2373	1522	1953	741	27.7	5.29	8.05
MAX	293	2050	5000	1630	6630	5790	2810	6840	3000	543	19	36
MIN	3.4	3.2	3.2	18	222	388	505	23	76	4.3	3.6	2.1

CAL YR 1983 TOTAL 313945.0 MEAN 860 MAX 11500 MIN 3.2
WTR YR 1984 TOTAL 331737.3 MEAN 906 MAX 6840 MIN 2.1

05573540 SANGAMON RIVER AT ROUTE 48 AT DECATUR, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1965-66, 1968-69, 1971-77 are published in Water-Resources Investigations 78-23 and 79-24 as site E 09.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 11...	1200	17002	17002	5.1	633	7.1	17.0	3.3	7.0	25	K80000
DEC 05...	1100	17002	17002	1550	500	8.4	3.0	2.3	13.7	15	K2000
JAN 31...	1200	17002	17002	156	703	7.3	3.0	3.0	12.4	11	K15000
MAR 05...	1600	17002	17002	970	609	7.8	2.0	3.3	13.9	3	340
APR 09...	1600	17002	17002	1010	520	7.9	9.5	3.7	11.4	4	720
MAY 01...	0800	17002	17002	1290	525	7.6	15.0	7.1	10.3	7	2200
JUN 27...	1100	17002	17002	200	562	8.0	26.0	2.0	7.6	18	K8300
JUL 26...	1300	17002	17002	12	589	7.3	24.0	19	3.3	110	2200
AUG 23...	1200	17002	17002	4.3	498	7.0	23.0	4.9	.6	53	K4000

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT 11...	230	32	32	37	37	18	19	2.5	2.4	62	35
DEC 05...	270	60	60	28	28	15	14	2.4	2.3	46	29
JAN 31...	340	79	80	35	35	16	16	1.4	1.4	60	42
MAR 05...	280	65	65	28	28	8.0	8.3	1.1	1.1	43	25
APR 09...	280	68	64	30	28	7.1	6.8	1.4	1.2	40	23
MAY 01...	270	64	61	29	28	5.1	5.2	1.5	1.3	40	21
JUN 27...	280	67	65	30	29	8.2	8.2	1.7	1.4	43	21
JUL 26...	210	46	42	26	25	71	70	4.8	4.5	54	59
AUG 23...	170	37	36	20	19	37	35	3.9	3.6	39	47

K Results based on colony count outside the acceptable range (non-ideal colony count).

05573540 SANGAMON RIVER AT ROUTE 48 AT DECATUR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
OCT 11...	5	4	.29	1.60	.007	.440	.350	190	120	27	25
DEC 05...	9	2	4.0	<.100	<.003	.140	.110	380	71	59	54
JAN 31...	4	0	8.3	<.100	<.001	.100	.060	64	140	59	62
MAR 05...	35	5	9.4	<.100	<.001	.080	.060	360	60	51	46
APR 09...	37	4	9.1	<.100	<.001	.100	.060	1200	110	62	48
MAY 01...	54	14	10	<.100	<.001	.120	.060	1100	<50	65	51
JUN 27...	30	22	8.8	<.100	<.006	.140	.100	1100	75	79	67
JUL 26...	88	33	1.9	3.60	.040	1.30	.860	1200	51	82	47
AUG 23...	25	12	<.10	2.20	.011	.850	.600	290	<50	67	50

DATE	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT 11...	<1	<.5	140	150	<3	<3	5	<5	<5	<5
DEC 05...	<2	<1	63	63	<3	<3	<5	<5	<5	<5
JAN 31...	<1	<1	50	52	<3	<3	7	8	<5	<5
MAR 05...	<1	<1	<50	<50	<3	<3	<5	<5	<5	<5
APR 09...	<1	<.5	<50	<50	<3	<3	<5	<5	<5	<5
MAY 01...	<1	<.5	54	54	<3	<3	<5	<5	<5	<5
JUN 27...	<1	<.5	50	<50	<3	<3	<5	<5	<5	<5
JUL 26...	<2	<2	150	150	<3	<3	<5	<5	<5	<5
AUG 23...	<1	<.5	160	160	<3	<3	<5	12	<5	8

05573540 SANGAMON RIVER AT ROUTE 48 AT DECATUR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 11...	<5	<5	190	<50	<50	<50	75	53	--	12
DEC 05...	<5	<5	400	<50	<50	<50	27	<5	--	<5
JAN 31...	<5	<5	76	140	<50	<50	77	84	--	9
MAR 05...	<5	<5	430	<50	<50	<50	43	28	--	<5
APR 09...	<5	<5	1300	<50	<50	<50	67	18	--	<5
MAY 01...	<5	<5	1300	<50	<50	<50	61	8	--	<5
JUN 27...	<5	<5	960	<50	<50	<50	40	<5	--	<5
JUL 26...	24	6	1600	81	<100	<50	210	130	--	<5
AUG 23...	10	<5	630	94	<50	<100	330	310	<.1	6

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 11...	10	<3	<3	91	90	<5	<5	<50	<50	1
DEC 05...	<5	<3	<3	110	110	<5	<5	<100	<100	0
JAN 31...	9	3	3	130	130	<5	<5	<50	<50	1
MAR 05...	<5	<3	<3	100	100	<5	<5	<50	<50	0
APR 09...	<5	<3	<3	100	98	<5	<5	<50	<50	0
MAY 01...	<5	<3	<3	100	96	<5	<5	<50	<50	1
JUN 27...	<5	<3	<3	120	120	<5	<5	<100	<100	0
JUL 26...	<5	<3	<3	120	110	<5	<5	<100	<50	8
AUG 23...	10	<3	5	110	100	<5	<5	<100	<50	3

05573650 SANGAMON RIVER NEAR NIANTIC, IL

LOCATION.--Lat 39°47'48", long 89°06'15", in NE¼ sec.32, T.16 N., R.1 E., Macon County, Hydrologic Unit 07130006, at Lincoln Trail Bridge in Lincoln Homestead Memorial Park, 5.0 mi southeast of Niantic, 7.3 mi upstream from Old River, 9.2 mi downstream from Stevens Creek, and at mile 116.9.

DRAINAGE AREA.--1,054 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site E 05.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT 11...	1000	17002	17002	E49	601	7.3	17.0	6.6	6.9	44	280
DEC 05...	0900	17002	17002	620	602	8.2	4.0	3.0	12.4	18	K780
JAN 31...	1000	17002	17002	690	1110	7.3	2.0	3.2	11.2	16	1700
APR 04...	0900	17002	17002	1910	539	7.6	8.0	5.2	11.0	11	K4000
MAY 01...	1400	17002	17002	1640	588	7.6	16.0	6.5	8.9	11	2600
JUN 06...	1400	17002	17002	1470	551	7.7	22.0	2.7	7.4	14	--
27...	0900	17002	17002	261	686	7.6	24.0	2.1	5.6	17	340
JUL 26...	1000	17002	17002	49	1970	7.4	28.0	2.5	3.1	39	260
AUG 23...	1000	17002	17002	67	2640	7.1	25.0	3.1	2.7	47	K2000

DATE	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT 11...	230	0	.00	40	40	32	32	580	500	17	17
DEC 05...	270	120	.00	61	61	28	28	37	37	2.8	2.7
JAN 31...	330	110	.00	73	73	35	35	91	90	3.6	3.5
APR 04...	250	100	.00	59	57	26	25	18	17	1.7	1.4
MAY 01...	280	110	.00	64	64	30	29	15	16	1.6	1.5
JUN 06...	240	96	.00	58	58	25	24	20	20	2.5	2.1
27...	280	94	.00	66	64	30	30	37	36	2.5	2.2
JUL 26...	290	130	.00	55	54	37	37	300	290	12	12
AUG 23...	250	140	.00	46	46	33	33	470	480	15	15

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05573650 SANGAMON RIVER NEAR NIANTIC, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
OCT											
11...	309	260	490	5	3	.97	17.0	.113	5.70	5.30	200
DEC											
05...	150	55	50	14	3	3.8	.800	.015	.230	.190	410
JAN											
31...	217	88	140	15	2	6.8	4.70	.010	.470	.430	230
APR											
04...	141	44	34	70	8	8.7	.340	.002	.250	.200	1400
MAY											
01...	169	48	37	44	4	9.5	.360	.004	.240	.160	1200
JUN											
06...	148	43	31	109	17	9.6	.110	.003	.330	.230	2400
27...	190	53	48	43	34	8.8	.390	.009	.500	.440	1200
JUL											
26...	154	150	470	10	6	1.3	25.0	.457	3.50	3.30	130
AUG											
23...	111	250	530	5	2	.23	21.0	.158	3.70	3.30	<50

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
OCT											
11...	110	26	23	<1	<.5	320	330	<3	<3	<5	<5
DEC											
05...	82	60	54	<2	<2	75	74	<3	<3	<5	<5
JAN											
31...	<50	62	59	<1	<1	77	76	<3	<3	11	<5
APR											
04...	<50	59	44	<1	<.5	<50	<50	<3	<3	5	<5
MAY											
01...	<50	66	50	<1	<.5	<50	<50	<3	<3	<5	<5
JUN											
06...	70	79	58	<1	<.5	59	65	<3	<3	21	14
27...	<50	76	63	<1	<.5	60	57	<3	<3	<5	<5
JUL											
26...	<50	62	57	<2	<1	240	230	<3	<3	8	<5
AUG											
23...	<50	60	51	<1	<.5	240	250	<3	3	10	12

05573650 SANGAMON RIVER NEAR NIANTIC, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT											
11...	<5	<5	<5	<5	440	77	<50	<50	280	270	<.1
DEC											
05...	<5	<5	<5	<5	440	<50	<50	<50	45	13	<.1
JAN											
31...	<5	<5	<5	<5	330	<50	<50	<50	110	95	<.1
APR											
04...	<5	<5	<5	<5	1700	<50	<50	<50	79	34	<.1
MAY											
01...	<5	<5	<5	<5	1700	<50	<50	<50	83	13	<.1
JUN											
06...	12	9	13	6	2400	<50	110	<100	83	13	<.1
27...	<5	<5	<5	<5	1100	<50	<50	<50	58	9	<.1
JUL											
26...	<5	<5	<5	<5	320	100	<50	<50	510	470	<.1
AUG											
23...	<5	<5	<5	<5	600	96	<50	<50	630	620	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT											
11...	6	<5	<3	<3	110	110	<5	<5	<100	<50	1
DEC											
05...	<5	<5	<3	<3	120	120	<5	<5	--	--	0
JAN											
31...	7	6	<3	<3	130	130	<5	<5	<50	<50	0
APR											
04...	<5	<5	<3	<3	94	92	<5	<5	<50	<50	0
MAY											
01...	<5	<5	<3	<3	100	100	5	<5	<50	<50	1
JUN											
06...	26	23	6	6	110	110	14	13	<50	<50	0
27...	<5	<5	<3	<3	120	120	<5	<5	<100	<100	0
JUL											
26...	9	<5	<3	<3	140	140	<5	<5	<100	<50	0
AUG											
23...	9	17	<3	<3	120	120	<5	<5	<100	<100	1

05573800 SANGAMON RIVER AT ROBY, IL

LOCATION.--Lat 39°44'32", long 89°23'57", in SW¼ sec.14, T.15 N., R.3 W., Sangamon County, Hydrologic Unit 07130006, at bridge on county road, 0.1 mi north of Roby, 7.2 mi upstream from Buckhart Creek, 8.1 mi downstream from Mosquito Creek, and at mile 98.5.

DRAINAGE AREA.--1,264 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1965-66, 1968-69, 1971-72 are published in Water-Resources Investigations 78-23 as site E 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 18...	1200	17002	17002	--	698	7.5	13.0	2.9	6.2	35	180
DEC 12...	1100	17002	17002	6060	502	7.3	4.0	8.1	11.2	28	2800
FEB 07...	0900	17002	17002	1080	--	7.8	.0	1.5	12.3	7	K100
MAR 29...	1200	17002	17002	6410	440	7.5	5.0	5.7	12.6	20	7600
APR 26...	1300	17002	17002	4440	535	7.5	13.0	31	9.9	15	K3700
MAY 23...	1100	17002	17002	5250	541	7.3	19.0	10	7.7	35	45000
JUN 26...	1000	17002	17002	285	710	7.6	23.0	2.0	7.0	16	320
JUL 30...	1400	17002	17002	261	519	7.9	25.0	6.3	7.3	19	280
AUG 27...	1300	17002	17002	48	2100	7.8	25.0	7.1	8.2	40	K100

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 18...	--	--	.00	53	--	33	--	440	--	13	--
DEC 12...	220	86	.00	56	51	25	22	16	15	2.8	2.3
FEB 07...	340	130	.00	79	77	35	35	31	29	1.8	1.7
MAR 29...	210	110	.00	50	48	22	21	9.4	9.3	2.2	1.6
APR 26...	240	90	.00	62	54	28	25	9.6	8.3	1.5	1.2
MAY 23...	230	92	--	57	51	29	26	15	15	2.1	1.3
JUN 26...	300	93	.00	73	70	32	31	31	31	2.0	1.7
JUL 30...	220	65	.00	42	41	29	29	20	20	2.1	1.9
AUG 27...	290	67	.00	62	60	36	34	370	360	12	11

K Results based on colony count outside the acceptable range (non-ideal colony count).

05573800 SANGAMON RIVER AT ROBY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
OCT 18...	255	210	--	11	6	2.2	13.0	.101	--	--	350
DEC 12...	132	45	32	165	20	7.9	.230	<.001	.370	.170	2500
FEB 07...	204	60	51	32	4	8.0	1.10	.006	.180	.090	590
MAR 29...	101	40	24	150	94	8.3	<.100	<.001	.230	.120	3000
APR 26...	148	50	27	55	5	9.3	.140	.001	.150	.090	1100
MAY 23...	143	43	33	278	22	8.0	<.100	<.001	.240	.080	4800
JUN 26...	210	55	42	41	34	8.9	<.100	<.002	.270	.210	1100
JUL 30...	157	46	34	43	10	4.2	.190	.009	.350	.230	600
AUG 27...	223	210	390	35	18	2.8	9.10	.332	2.40	2.30	320

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT 18...	--	48	--	<1	--	230	--	<3	--	<5	--
DEC 12...	120	89	51	<1	<.5	<50	<50	<3	<3	9	<5
FEB 07...	<50	67	59	<2	<1	56	<50	<3	<3	6	<5
MAR 29...	57	73	41	<1	<.5	<50	<50	<3	<3	8	<5
APR 26...	<50	64	44	<1	<1	<50	--	<3	<3	<5	<5
MAY 23...	<50	100	57	<1	<.5	53	<50	<3	<3	8	<5
JUN 26...	<50	85	72	<1	<2	58	63	<3	<3	<5	<5
JUL 30...	<50	49	39	<1	<1	67	64	<3	<3	10	8
AUG 27...	<50	79	65	<1	<1	210	200	<3	<3	<5	<5

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05573800 SANGAMON RIVER AT ROBY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT 18...	<5	--	<5	--	490	--	<50	--	620	--	<.1
DEC 12...	<5	<5	9	<5	3100	61	<50	<50	170	55	<.1
FEB 07...	<5	<5	<5	<5	710	<50	<50	<50	68	40	<.1
MAR 29...	<5	<5	<5	<5	3300	51	<50	<50	78	8	<.1
APR 26...	<5	<5	<5	<5	1500	<50	<50	<50	68	<5	<.1
MAY 23...	<5	<5	9	<5	5900	67	<50	<50	180	<5	<.1
JUN 26...	9	5	<5	<5	1100	<50	<50	<50	86	13	<.1
JUL 30...	7	5	<5	<5	750	<50	<50	<50	190	60	<.1
AUG 27...	<5	<5	<5	<5	500	<50	<50	<50	1200	1100	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 18...	<5	--	<3	--	110	--	<5	--	<100	--	--
DEC 12...	8	<5	<3	<3	100	93	6	<5	<100	<50	0
FEB 07...	8	7	<3	<3	140	130	<5	<5	<50	<50	0
MAR 29...	<5	<5	<3	<3	81	77	6	<5	<50	<50	1
APR 26...	<5	<5	<3	<3	100	89	<5	<5	<50	<50	0
MAY 23...	<5	<5	<3	<3	110	99	11	<5	<100	<50	1
JUN 26...	10	<5	<3	<3	140	130	<5	<5	<50	<50	1
JUL 30...	6	<5	<3	<3	110	100	<5	<5	<50	<50	0
AUG 27...	19	10	<3	<3	140	130	<5	<5	<50	<50	1

05574500 FLAT BRANCH NEAR TAYLORVILLE, IL

LOCATION.--Lat 39°33'14", long 89°15'12", in SE¼SE¼ sec.24, T.13 N., R.2 W., Christian County, Hydrologic Unit 07130007, on right bank at downstream side of bridge on old State Highway 29, 1.4 mi east of Taylorville and at mile 1.6.

DRAINAGE AREA.--276 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site EOH 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
OCT 04...	1200	17002	17002	659	7.2	15.0	5.0	7.2	21	K90	210	24
NOV 17...	1130	17002	17002	428	8.7	6.0	5.2	11.2	22	210	190	35
DEC 01...	1100	17002	17002	788	7.4	3.0	8.1	8.3	37	--	140	--
JAN 10...	1300	17002	17002	540	7.9	.5	3.1	12.4	8	210	260	110
MAR 14...	1200	17002	17002	578	7.0	2.0	1.7	12.8	4	K10	260	120
APR 24...	1200	17002	17002	229	6.8	10.0	180	10.5	58	K900	86	--
MAY 22...	1300	17002	17002	441	7.0	19.0	50	7.6	19	1000	190	89
JUN 19...	1200	17002	17002	558	7.6	26.0	4.5	5.5	18	400	260	110
JUL 16...	1300	17002	17002	600	8.2	24.0	22	6.0	19	420	270	78
AUG 21...	1200	17002	17002	651	7.7	31.0	16	4.8	27	270	290	160

DATE	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT 04...	.00	51	50	22	21	17	18	4.6	4.4	188	35	--
NOV 17...	.00	53	47	20	18	11	9.6	2.6	2.0	157	28	15
DEC 01...	.00	35	33	16	14	8.4	9.0	3.7	3.3	<10	38	--
JAN 10...	.00	60	61	27	27	18	18	1.3	1.3	155	54	--
MAR 14...	.00	60	59	27	27	15	15	.8	.77	143	50	--
APR 24...	.00	28	20	13	8.7	3.7	2.9	3.1	1.4	<10	38	--
MAY 22...	.00	48	44	22	20	8.4	7.9	2.2	1.7	104	36	--
JUN 19...	.00	61	60	29	27	15	16	1.9	1.3	156	46	--
JUL 16...	.00	63	60	29	28	19	19	1.8	1.7	188	43	--
AUG 21...	.00	68	65	31	30	29	27	2.2	2.0	129	28	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

05574500 FLAT BRANCH NEAR TAYLORVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 04...	--	48	9	.54	<.100	<.001	--	--	.180	.100	--	--
NOV 17...	.2	47	6	2.9	<.100	<.007	1.1	4.0	.270	.100	560	<50
DEC 01...	--	73	11	5.1	<.100	<.001	--	--	.450	.260	3400	170
JAN 10...	--	7	4	6.7	.190	.001	--	--	.100	.090	250	86
MAR 14...	--	7	0	9.8	<.100	<.001	--	--	.060	.040	190	100
APR 24...	--	130	30	4.8	.130	<.001	--	--	.490	.140	8900	120
MAY 22...	--	63	1	9.0	<.100	<.001	--	--	.190	.120	2200	51
JUN 19...	--	120	17	8.5	<.100	<.003	--	--	.190	.090	3300	<50
JUL 16...	--	130	30	2.7	<.100	<.008	--	--	.190	.120	1000	<50
AUG 21...	--	71	58	.56	<.100	<.002	--	--	.260	.190	800	<50

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 04...	--	100	82	<1	<2	57	65	<3	<3	<5	<5	<5
NOV 17...	1	74	53	<1	<.5	<50	<50	<3	<3	<5	<5	<5
DEC 01...	--	100	57	<1	<.5	<50	<50	3	<3	5	<5	<5
JAN 10...	--	74	71	<2	<2	<50	<50	<3	<3	<5	<5	<5
MAR 14...	--	70	66	<1	<.5	<50	<50	<3	<3	<5	<5	<5
APR 24...	--	200	41	<1	<.5	<50	--	<3	<3	9	<5	8
MAY 22...	--	100	72	<1	<.5	<50	<50	<3	<3	<5	<5	<5
JUN 19...	--	100	93	<1	<1	<50	<50	5	<3	11	<5	8
JUL 16...	--	100	98	<1	<.5	<50	<50	5	<3	10	<5	10
AUG 21...	--	100	100	<1	<.5	<50	<50	<3	<3	<5	<5	<5

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05574500 FLAT BRANCH NEAR TAYLORVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT												
04...	<5	<5	<5	1000	20	<50	<50	320	200	<.1	<5	9
NOV												
17...	<5	<5	—	1200	<50	<50	<50	110	<5	<.1	<5	<5
DEC												
01...	<5	7	<5	3900	180	<50	<50	100	30	<.1	8	6
JAN												
10...	<5	<5	<5	260	<50	<50	<50	66	64	<.1	<5	<5
MAR												
14...	<5	<5	<5	150	<50	<50	<50	45	38	<.1	<5	7
APR												
24...	<5	12	<5	10000	120	<50	<50	220	7	<.1	16	<5
MAY												
22...	<5	<5	<5	2500	80	<50	<50	86	13	<.1	<5	<5
JUN												
19...	<5	<5	<5	3100	<50	<100	<50	140	41	<.1	16	<5
JUL												
16...	7	<5	<5	1200	<50	<100	<50	170	47	<.1	14	8
AUG												
21...	<5	<5	<5	880	<50	<50	<50	330	190	<.1	<5	<5

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT											
04...	<3	<3	120	120	<5	<5	<100	<100	--	--	--
NOV											
17...	<3	<3	110	96	<5	<5	<100	<50	<.01	<5	2
DEC											
01...	<3	<3	91	84	8	<5	<100	<100	--	--	--
JAN											
10...	<3	<3	150	150	<5	<5	<50	<50	--	--	--
MAR											
14...	<3	<3	140	140	<5	<5	<50	<50	--	--	--
APR											
24...	<3	<3	83	56	19	<5	<50	<50	--	--	--
MAY											
22...	<3	<3	120	110	<5	<5	<100	<50	--	--	--
JUN											
19...	5	<3	160	160	11	<5	<50	<50	--	--	--
JUL											
16...	4	<3	160	160	10	6	420	<50	--	--	--
AUG											
21...	<3	<3	170	170	<5	<5	<50	<50	--	--	--

05575500 SOUTH FORK SANGAMON RIVER AT KINCAID, IL

LOCATION.--Lat 39°34'44", long 89°23'31", in NE¼ sec.14, T.13 N., R.3 W., Christian County, Hydrologic Unit 07130007, at bridge on State Highway 104, 1.0 mi southeast of Kincaid, 5.0 mi upstream from Panther Creek, 5.6 mi upstream from Bear Creek, and at mile 37.8.

DRAINAGE AREA.--562 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site BO 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 04...	1300	17002	17002	--	479	6.9	17.0	--	6.8	23	K10	--
DEC 01...	1000	17002	17002	750	731	6.9	2.5	8.6	7.7	32	--	--
JAN 10...	1400	17002	17002	528	487	7.5	.0	7.7	12.5	12	1600	230
MAR 14...	1300	17002	17002	463	538	6.9	2.0	6.7	12.3	8	K10	220
APR 24...	1400	17002	17002	4880	198	6.7	10.0	180	10.4	70	K200	83
MAY 23...	1000	17002	17002	1160	410	7.0	18.0	48	7.5	39	K9000	170
JUN 19...	1300	17002	17002	129	626	7.2	26.0	9.8	5.0	15	K1300	260
JUL 16...	1400	17002	17002	41	630	7.2	24.0	36	3.8	27	720	230
AUG 21...	1300	17002	17002	--	1410	6.3	24.5	220	3.0	25	K20	390

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 04...	--	24	73	--	49	--	73	--	8.0	--	39	360
DEC 01...	--	.00	38	--	16	--	10	--	3.9	--	30	43
JAN 10...	100	.00	53	52	23	23	18	18	2.1	2.0	124	65
MAR 14...	110	.00	53	52	23	23	17	17	1.5	1.4	112	61
APR 24...	--	.00	33	20	16	8.1	4.0	3.6	3.2	1.4	<10	42
MAY 23...	89	.00	45	40	20	17	10	9.6	3.0	1.9	81	40
JUN 19...	140	.00	63	60	29	27	26	26	2.3	1.9	125	74
JUL 16...	120	.00	52	50	26	25	40	38	3.5	3.2	109	100
AUG 21...	360	.00	77	76	49	48	130	130	9.3	9.2	28	460

K Results based on colony count outside the acceptable range (non-ideal colony count).

05575500 SOUTH FORK SANGAMON RIVER AT KINCAID, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
OCT												
04...	65	64	16	1.1	2.10	.006	.90	3.0	4.1	.060	<.010	--
DEC												
01...	22	70	10	4.9	<.100	<.001	--	2.0	6.9	.400	.190	2700
JAN												
10...	31	36	16	5.7	.200	<.001	.80	1.0	6.7	.210	.070	960
MAR												
14...	32	19	0	7.1	<.100	<.001	--	.50	7.6	.100	.010	380
APR												
24...	18	125	25	3.7	.150	<.001	2.4	2.5	6.2	.470	.120	11000
MAY												
23...	23	432	32	7.0	<.100	<.001	--	2.1	9.1	.350	.060	7300
JUN												
19...	47	140	20	6.8	.300	.003	.80	1.1	7.9	.090	.010	2000
JUL												
16...	45	44	18	1.9	.770	.007	1.2	2.0	3.9	.170	.010	1400
AUG												
21...	120	88	67	.63	2.60	.003	1.6	4.2	4.8	.050	.020	1100

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT											
04...	--	87	--	<1	--	320	--	<3	--	<5	--
DEC											
01...	--	100	--	<1	--	66	--	<3	--	8	--
JAN											
10...	74	80	67	<1	<1	67	70	<3	<3	<5	<5
MAR											
14...	120	73	65	<1	<.5	58	62	<3	<3	<5	<5
APR											
24...	85	200	40	<1	<.5	74	72	<3	<3	11	<5
MAY											
23...	<50	200	68	<1	<.5	64	<50	<3	<3	9	<5
JUN											
19...	<50	100	95	<1	<1	72	64	3	<3	12	<5
JUL											
16...	<50	98	77	<1	<.5	120	110	<3	3	<5	<5
AUG											
21...	<50	100	120	<1	<.5	410	400	<3	<3	<5	<5

05575500 SOUTH FORK SANGAMON RIVER AT KINCAID, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
OCT 04...	9	--	<5	--	40000	--	<50	--	2500	--	<.1
DEC 01...	<5	--	6	--	3600	--	<50	--	140	--	<.1
JAN 10...	<5	<5	<5	<5	2600	1400	<50	<50	160	150	<.1
MAR 14...	<5	<5	<5	<5	1800	900	<50	<50	130	120	<.1
APR 24...	9	<5	14	<5	12000	100	<100	<50	280	10	<.1
MAY 23...	<5	<5	21	<5	10000	70	<50	<50	310	110	<.1
JUN 19...	11	<5	<5	<5	5800	320	<50	<50	300	250	<.1
JUL 16...	6	5	<5	<5	10000	1800	<50	<50	540	500	<.1
AUG 21...	<5	<5	<5	<5	35000	28000	<50	<50	2400	2400	<.1

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)
OCT 04...	16	--	<3	--	180	--	<5	--	140	--	0
DEC 01...	8	--	<3	--	100	--	7	--	<50	--	0
JAN 10...	<5	<5	<3	<3	140	140	<5	<5	<50	<50	1
MAR 14...	<5	5	<3	<3	140	140	<5	<5	<50	<50	0
APR 24...	17	<5	<3	<3	82	58	22	<5	<50	<50	1
MAY 23...	13	<5	<3	<3	130	110	15	<5	<100	<100	1
JUN 19...	18	7	6	<3	180	170	10	<5	<50	<50	1
JUL 16...	8	<5	<3	<3	150	140	<5	<5	<50	<50	2
AUG 21...	21	20	<3	<3	230	230	<5	<5	<100	<100	1

05575570 SANGCHRIS LAKE NEAR NEW CITY, IL

LOCATION.--Lat 39°39'00", long 89°28'40", in NW¼ sec.19, T.14 N., R.3 W., Christian County, Hydrologic Unit 07130007, at Lake Sangchris Dam at Clear Creek mile 1.0 and 3.5 mi east of New City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 18...	1000	17002	17002	596	7.5	16.5	--	8.1	15	K35	--
DEC 12...	0900	17002	17002	580	7.9	9.0	3.3	10.3	12	K20	--
FEB 07...	1100	17002	17002	560	8.6	5.0	1.2	11.7	11	K5	230
MAR 29...	1000	17002	17002	455	7.1	10.0	4.0	11.4	8	K20	180
APR 25...	1300	17002	17002	418	7.1	20.0	48	8.4	19	K40	170
MAY 16...	1200	17002	17002	444	7.9	19.0	2.1	9.5	6	K5	270
JUN 26...	0800	17002	17002	480	7.6	25.0	3.0	7.3	18	5	180
JUL 30...	1200	17002	17002	482	8.4	30.0	4.1	5.8	13	K5	180
AUG 27...	1400	17002	17002	550	8.4	30.0	6.5	7.6	16	K5	200

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)
OCT 18...	82	--	23	--	37	--	3.5	--	24	7
DEC 12...	53	--	22	--	36	--	3.7	--	9	4
FEB 07...	56	54	23	22	34	33	3.3	3.2	8	2
MAR 29...	43	43	19	18	18	18	2.8	2.6	32	22
APR 25...	41	40	17	17	15	15	2.5	2.2	30	10
MAY 16...	63	63	27	28	20	19	1.9	1.9	14	5
JUN 26...	44	42	18	17	23	22	2.3	2.2	8	6
JUL 30...	46	44	19	19	31	30	2.6	2.5	12	5
AUG 27...	49	48	21	20	41	40	2.9	2.8	30	20

K Results based on colony count outside the acceptable range (non-ideal colony count).

05575570 SANGCHRIS LAKE NEAR NEW CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 18...	.350	<.100	<.001	--	.70	1.1	.050	.020	490	--
DEC 12...	.650	<.100	<.001	--	.60	1.3	.030	.010	220	--
FEB 07...	2.40	<.100	.005	--	.60	3.0	.020	<.010	160	87
MAR 29...	5.90	<.100	<.001	--	1.0	6.9	.090	.030	1200	<50
APR 25...	6.30	<.100	<.001	--	1.0	7.3	.100	.030	1500	<50
MAY 16...	6.30	.130	.004	.77	.90	7.2	.030	<.010	270	<50
JUN 26...	6.10	<.100	<.002	--	.50	6.6	.020	.010	410	<50
JUL 30...	3.40	<.100	<.018	--	.60	4.0	.050	.010	260	<50
AUG 27...	1.80	<.100	<.018	--	.50	2.3	.040	<.010	370	<50

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT 18...	100	--	<1	--	250	--	<3	--	7	--
DEC 12...	98	--	<1	--	250	--	<3	--	<5	--
FEB 07...	88	82	<1	<1	260	250	<3	<3	5	<5
MAR 29...	80	65	<1	.5	140	140	<3	<3	5	<5
APR 25...	87	62	<1	<.5	120	120	<3	<3	<5	<5
MAY 16...	73	67	<1	<.5	160	140	<3	<3	10	<5
JUN 26...	80	72	<1	<1	120	130	<3	<3	9	<5
JUL 30...	86	77	<1	<1	150	150	<3	<3	8	6
AUG 27...	90	81	<1	<.5	170	170	<3	<3	<5	<5

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WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 18...	<5	--	<5	--	2500	--	<50	--	2700	--
DEC 12...	<5	--	<5	--	220	--	<50	--	54	--
FEB 07...	<5	<5	<5	<5	130	<50	<50	<50	39	<5
MAR 29...	<5	<5	<5	<5	1300	<50	<50	<50	57	13
APR 25...	<5	<5	<5	<5	1700	<50	<50	<50	49	<5
MAY 16...	<5	<5	<5	<5	390	120	<50	<50	19	<5
JUN 26...	<5	<5	<5	<5	340	<50	<50	<50	24	<5
JUL 30...	<5	6	<5	6	270	<50	<50	<50	34	<5
AUG 27...	<5	<5	<5	<5	290	<50	<50	<50	50	<5

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 18...	14	--	<3	--	280	--	<5	--	<100	--
DEC 12...	<5	--	<3	--	200	--	<5	--	<50	--
FEB 07...	7	6	<3	<3	190	190	<5	<5	<50	<50
MAR 29...	<5	<5	<3	<3	140	140	<5	<5	<50	<50
APR 25...	<5	<5	<3	<3	130	130	<5	<5	<50	<50
MAY 16...	<5	<5	<3	<3	130	130	6	<5	<50	<50
JUN 26...	<5	<5	<3	<3	150	150	<5	<5	<50	<50
JUL 30...	<5	7	<3	<3	180	170	<5	<5	<50	<50
AUG 27...	<5	<5	<3	<3	200	200	<5	<5	<100	<100

05575800 HORSE CREEK AT PAWNEE, IL

LOCATION.--Lat 39°34'56", long 89°34'20", in NE¼NE¼ sec.18, T.13 N., R.4 W., Sangamon County, Hydrologic Unit 07130007, on left bank at upstream side of bridge on County Highway 28, 0.3 mi south of Pawnee, 0.7 mi upstream from Merkle Branch, and at mile 21.0.

DRAINAGE AREA.--52.2 mi².

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-83-2: 1968-70(P), 1971(M), 1973(P), 1979, 1981-82.

GAGE.--Water-stage recorder. Datum of gage is 564.81 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--17 years, 44.4 ft³/s, 11.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,900 ft³/s Apr. 21, 1973, gage height, 17.70 ft; maximum gage height, 20.41 ft May 1, 1983; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 16	0345	1360	15.37	Apr. 22	0445	*1430	*15.61
Mar. 20	0143	1260	15.02				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	2.7	7.5	12	35	51	57	37	62	4.6	1.3	.00
2	.00	12	7.3	11	136	47	50	36	51	4.1	1.2	.00
3	.00	10	7.7	11	254	44	65	36	99	3.8	1.1	.00
4	.00	13	58	11	111	42	328	28	37	4.2	1.1	.00
5	.00	9.3	58	10	42	40	136	20	32	3.8	.87	.00
6	.00	6.3	41	10	27	38	93	31	27	3.7	.75	.00
7	.00	5.4	23	15	21	37	83	21	23	3.1	.60	.00
8	.00	5.2	18	34	20	35	54	17	21	2.7	.47	.01
9	.00	4.7	16	41	20	34	55	16	19	2.3	.40	25
10	.00	10	20	43	226	33	51	15	16	2.1	.33	13
11	.00	13	746	33	152	32	47	16	13	2.0	.24	22
12	.00	18	495	25	247	32	46	13	12	1.9	.18	15
13	.00	14	193	20	738	32	40	242	12	1.6	.14	8.3
14	.00	12	162	16	217	35	33	82	11	1.3	.10	6.1
15	.00	10	117	14	153	476	31	44	11	2.6	.04	5.2
16	.00	7.7	83	13	146	993	40	29	11	3.1	.00	4.1
17	.00	6.5	64	13	228	460	36	23	11	1.9	.00	3.6
18	.00	5.7	54	12	178	279	31	19	9.3	.81	.00	3.3
19	.00	5.6	45	12	192	654	25	19	8.1	1.0	.00	3.0
20	.00	31	37	12	114	878	22	65	7.7	1.1	.00	2.6
21	19	32	31	11	95	228	810	68	8.1	1.1	.00	2.3
22	79	18	27	11	82	167	1120	214	8.1	1.1	.00	2.1
23	17	29	24	11	71	113	336	296	8.6	1.3	.00	2.2
24	9.0	31	21	11	61	200	180	86	23	1.3	.00	1.9
25	6.9	16	19	12	51	679	129	224	8.6	1.3	.00	1.7
26	5.6	13	17	15	45	249	99	717	7.1	1.9	.00	1.5
27	4.1	135	16	21	36	420	75	259	7.3	2.3	.00	1.3
28	3.0	161	15	37	15	193	54	368	6.3	2.1	.00	1.2
29	2.4	39	14	45	26	119	55	128	5.4	2.0	.00	1.0
30	2.6	16	13	38	---	86	56	96	4.7	1.7	.00	.91
31	2.7	---	12	34	---	62	---	75	---	1.4	.00	---
TOTAL	151.30	692.1	2461.5	614	3739	6788	4237	3340	580.3	69.21	8.02	127.32
MEAN	4.88	23.1	79.4	19.8	129	219	141	108	19.3	2.23	.28	4.24
MAX	79	161	746	45	738	993	1120	717	99	4.6	1.3	25
MIN	.00	2.7	7.3	10	15	32	22	13	4.7	.81	.00	.00
CFSM	.09	.44	1.52	.38	2.47	4.20	2.70	2.07	.37	.04	.01	.08
IN.	.11	.49	1.75	.44	2.66	4.84	3.02	2.38	.41	.05	.01	.09

CAL YR 1983 TOTAL 22509.45 MEAN 61.7 MAX 2500 MIN .00 CFSM 1.18 IN. 16.04
WTR YR 1984 TOTAL 22808.55 MEAN 62.3 MAX 1120 MIN .00 CFSM 1.19 IN. 16.25

05576000 SOUTH FORK SANGAMON RIVER NEAR ROCHESTER, IL

LOCATION.--Lat 39°44'32", long 89°34'02", in NE¼NW¼ sec.20, T.15 N., R.4 W., Sangamon County, Hydrologic Unit 07130007, on right bank at city of Springfield dam, 100 ft downstream from Horse Creek, 1.7 mi southwest of Rochester, and at mile 7.4.

DRAINAGE AREA.--867 mi^2.

PERIOD OF RECORD.--July 1949 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.30 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, water-stage recorder, and Oct. 1, 1964, to Apr. 12, 1966, nonrecording gage, at site 2.2 mi downstream at same datum. Auxiliary water-stage recorder at site 1.2 mi downstream. May 19, 1950, to Apr. 29, 1975, auxiliary nonrecording gage at same site. Prior to May 19, 1950, auxiliary nonrecording gage at site 6.2 mi downstream.

REMARKS.--Records poor. Beginning Apr. 14, 1955, diversion above station for Springfield municipal supply during some years. Occasional regulation caused by operation of gate at diversion dam. Illinois Department of Transportation, Division of Water Resources, gage-height telemeter at station.

AVERAGE DISCHARGE.--35 years, 596 ft^3/s, 9.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft^3/s July 1, 1957, site then in use; maximum gage height, 31.92 ft Apr. 14, 1979; minimum daily discharge, 0.07 ft^3/s Dec. 6, 8, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,730 ft^3/s Mar. 20, gage height, 26.31 ft; minimum daily, 0.37 ft^3/s Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	22	611	380	220	605	1810	1160	2180	105	17	1.3
2	2.5	24	590	350	210	583	1580	950	1640	93	16	1.2
3	2.5	24	562	330	280	554	1500	838	1320	90	16	1.0
4	2.5	30	602	315	500	587	1580	780	1040	128	14	.80
5	2.3	24	575	305	820	703	1860	720	803	99	14	.60
6	1.9	39	554	300	1000	856	1830	680	552	94	12	.52
7	1.9	35	558	300	930	1010	1530	660	479	89	11	.46
8	2.3	36	557	320	860	1080	1650	640	480	110	9.7	.41
9	2.3	46	571	350	800	1110	1270	630	375	113	7.8	.37
10	2.1	54	571	450	760	1080	1400	619	411	89	7.8	1.5
11	1.7	54	1040	420	700	901	1160	531	366	76	6.8	105
12	2.9	58	1890	380	680	769	1030	513	278	36	6.5	83
13	2.9	59	2480	350	2000	718	972	810	282	55	6.5	113
14	12	56	2780	325	5000	612	988	1570	299	49	6.5	65
15	11	52	3510	300	5540	689	877	1500	311	141	6.5	48
16	13	51	4210	265	5000	2240	813	1440	277	49	6.5	44
17	8.4	50	4000	240	4500	3980	865	1260	241	87	6.0	37
18	4.9	47	3000	220	4000	4250	812	1310	223	62	6.0	33
19	1.2	44	2250	195	3500	4900	586	1150	226	50	6.0	28
20	1.2	54	1690	180	3000	7050	723	1400	193	44	5.1	25
21	28	94	1400	160	2710	7610	968	1660	197	40	4.9	14
22	540	90	1100	150	2290	7270	3310	1650	207	34	3.4	3.6
23	541	54	860	138	1820	6610	4500	2070	191	30	2.5	3.4
24	246	222	700	140	1540	5720	4920	1890	198	27	2.5	2.7
25	156	275	680	150	1290	5380	4770	1790	208	24	2.5	2.5
26	123	256	600	170	1020	5130	4190	2560	186	22	2.5	2.5
27	99	315	560	190	811	4280	3470	3030	180	22	2.5	2.5
28	74	709	510	210	692	3500	2750	3180	163	22	2.3	2.5
29	54	958	470	240	596	3000	2200	2840	143	22	2.1	2.5
30	39	668	430	270	---	2500	1580	2650	122	22	1.5	2.5
31	28	---	400	250	---	2000	---	2500	---	19	1.3	---
TOTAL	2010.4	4518	40311	8343	53069	87277	57494	44581	13771	1943	215.7	627.86
MEAN	64.9	151	1300	269	1830	2815	1916	1451	459	62.7	6.96	20.9
MAX	541	958	4210	450	5540	7610	4920	3180	2180	141	17	113
MIN	1.2	22	400	138	210	554	586	513	122	19	1.3	.37
CFSM	.07	.17	1.50	.31	2.11	3.25	2.21	1.67	.53	.07	.01	.02
IN.	.09	.19	1.73	.36	2.28	3.74	2.47	1.93	.59	.08	.01	.03

CAL YR 1983 TOTAL 306439.5 MEAN 840 MAX 8500 MIN 1.2 CFSM .97 IN. 13.15
WTR YR 1984 TOTAL 314560.96 MEAN 859 MAX 7610 MIN .37 CFSM .99 IN. 13.50

05576022 SOUTH FORK SANGAMON RIVER BELOW ROCHESTER, IL

LOCATION.--Lat 39°43'50", long 89°33'43", in NW¼SE¼ sec.8, T.15 N., R.4 W., Sangamon County, Hydrologic Unit 07130007, at State Highway 29 bridge, 1.7 mi northwest of Rochester, 1.8 mi upstream from Black Branch, 2.2 mi downstream from Horse Creek, and at mile 5.0.

DRAINAGE AREA.--870 mi².

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site EO 01.

REVISED RECORDS.--WDR IL-79-2: Drainage area.

REMARKS.--Water discharges were determined from South Fork Sangamon River near Rochester (station 05576000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
DEC 12...	1300	17002	17002	1890	285	6.8	5.0	9.0	10.8	55	3700
FEB 07...	1300	17002	17002	E930	370	7.3	.0	15	11.6	18	310
APR 03...	1400	17002	17002	1500	470	7.3	9.0	8.1	10.8	11	K60
26...	1000	17002	17002	4200	258	7.1	14.0	170	9.4	46	K360
MAY 31...	1400	17002	17002	2500	394	7.6	15.0	8.8	8.2	28	K300
JUN 26...	1100	17002	17002	180	--	7.0	24.0	2.9	6.2	31	560
JUL 30...	1000	17002	17002	23	733	7.3	22.0	11	5.8	18	230
AUG 27...	1200	17002	17002	1.9	797	7.7	22.0	5.9	7.8	30	K50

DATE	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
DEC 12...	110	--	.00	31	26	14	11	8.3	8.1	4.0	2.9
FEB 07...	150	92	.00	37	36	16	15	13	13	2.6	2.4
APR 03...	210	110	.00	50	49	23	22	14	14	1.9	1.5
26...	94	--	.00	29	22	13	9.4	5.8	5.2	2.9	1.8
MAY 31...	160	94	.00	41	36	17	16	12	11	2.4	1.8
JUN 26...	240	110	.00	54	55	25	25	22	22	2.9	2.3
JUL 30...	290	110	.00	66	65	31	30	46	46	3.4	3.0
AUG 27...	320	130	.00	74	72	36	34	52	55	3.3	3.2

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05576022 SOUTH FORK SANGAMON RIVER BELOW ROCHESTER, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
DEC											
12...	<10	42	310	35	4.9	<.100	<.001	.710	.160	8200	310
FEB											
07...	60	48	12	2	4.9	.130	<.001	.260	.110	1900	59
APR											
03...	100	51	106	9	8.4	<.100	<.001	.180	.050	2600	12[illegible]
26...	<10	43	65	10	4.7	.110	<.001	.350	.100	7900	80
MAY											
31...	62	--	248	20	7.3	<.100	<.001	.300	.080	2000	<50
JUN											
26...	132	67	153	132	6.8	<.100	<.001	.200	.050	3600	<50
JUL											
30...	174	120	114	20	.91	<.100	<.001	.200	.080	2200	190
AUG											
27...	192	120	79	64	<.10	<.100	<.002	.280	.080	830	<50

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
DEC											
12...	200	49	<2	<1	<50	<50	6	<3	15	5	7
FEB											
07...	84	56	<1	<2	150	150	3	<3	8	<5	<5
APR											
03...	100	69	<1	<.5	51	<50	<3	<3	<5	<5	<5
26...	200	44	<1	<1	80	130	<3	<3	8	<5	6
MAY											
31...	100	67	<1	<.5	58	56	<3	<3	<5	<5	<5
JUN											
26...	100	95	<2	<1	69	72	<3	<3	<5	<5	6
JUL											
30...	200	130	<1	<.5	100	100	<3	<3	9	<5	<5
AUG											
27...	200	130	<1	<2	230	160	<3	<3	<5	<5	6

05576022 SOUTH FORK SANGAMON RIVER BELOW ROCHESTER, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
DEC										
12...	<5	14	<5	10000	280	<100	<50	450	130	<.1
FEB										
07...	<5	<5	<5	2200	<50	<50	<50	100	58	<.1
APR										
03...	<5	<5	<5	3100	<50	<50	<50	120	46	<.1
26...	<5	9	<5	8800	100	<50	<50	200	<5	<.1
MAY										
31...	<5	12	<5	1900	<50	<50	<50	140	14	<.1
JUN										
26...	6	<5	<5	3800	<50	<50	<50	230	71	<.1
JUL										
30...	<5	<5	6	2400	<50	<50	<50	420	260	<.1
AUG										
27...	<5	<5	<5	1500	<50	<100	<50	840	450	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
DEC										
12...	20	<5	<3	<3	93	75	19	<5	<100	<50
FEB										
07...	12	9	<3	<3	110	100	7	<5	<50	<50
APR										
03...	<5	<5	<3	<3	140	130	7	<5	<50	<50
26...	14	<5	<3	<3	90	67	16	<5	<50	<50
MAY										
31...	6	<5	<3	<3	130	110	<5	<5	<50	<50
JUN										
26...	8	6	<3	<3	170	160	<5	<5	<100	<100
JUL										
30...	22	<5	<3	<3	200	200	<5	<5	<50	<50
AUG										
27...	15	6	4	<3	230	220	7	<5	<50	<50

05576250 SUGAR CREEK NEAR SPRINGFIELD, IL

LOCATION.--Lat 39°46'48", long 89°35'20", in SW1/4NW1/4 sec.6, T.15 N., R.4 W., Sangamon County, Hydrologic Unit 07130007, 1.9 mi east of Springfield, 2.9 mi downstream from Lake Springfield Dam, and at mile 5.5.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site EOA 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
26...	1300	17002	17002	544	7.2	10.5	5.3	8.3	13	1200	290
DEC											
14...	1400	17002	17002	583	7.2	5.0	7.1	9.3	20	4400	230
FEB											
07...	1400	17002	17002	488	8.1	4.0	2.7	11.7	12	K5	240
APR											
03...	1200	17002	17002	400	7.4	8.0	3.3	10.4	8	K220	190
25...	0900	17002	17002	423	7.4	11.0	23	10.0	11	K150	200
MAY											
16...	1400	17002	17002	365	7.5	19.0	5.0	9.4	11	K60	260
JUN											
26...	1200	17002	17002	510	7.9	25.0	1.5	6.7	16	K700	240
JUL											
30...	1100	17002	17002	648	7.9	24.0	10	5.6	13	330	300
AUG											
27...	1100	17002	17002	548	8.4	24.0	5.5	6.0	15	280	250

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT											
26...	80	74	28	26	17	17	4.6	4.3	140	29	36
DEC											
14...	62	59	22	21	26	25	3.0	2.8	100	50	13
FEB											
07...	59	58	24	24	13	13	2.6	2.6	71	29	14
APR											
03...	44	43	19	19	9.4	9.3	2.3	2.1	48	22	28
25...	47	46	21	21	6.9	6.8	2.0	1.9	52	22	9
MAY											
16...	61	61	27	27	7.5	7.5	1.8	1.8	41	16	20
JUN											
26...	66	62	21	20	12	11	3.3	2.9	96	28	50
JUL											
30...	84	82	23	22	14	14	3.8	3.7	150	44	44
AUG											
27...	71	68	20	20	15	14	4.1	3.9	160	28	27

K Results based on colony count outside the acceptable range (non-ideal colony count).

05576250 SUGAR CREEK NEAR SPRINGFIELD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT											
26...	8	.56	.120	<.001	.78	.90	1.5	.100	.060	930	97
DEC											
14...	5	1.9	.100	<.001	.80	.90	2.8	.160	.090	850	60
FEB											
07...	3	2.3	<.100	<.002	--	.80	3.1	.090	.060	310	70
APR											
03...	3	6.3	<.100	<.001	--	.90	7.2	.130	.090	1100	130
25...	2	8.0	.110	<.001	.79	.90	8.9	.120	.090	600	<50
MAY											
16...	6	6.1	.150	.002	.75	.90	7.0	.160	.100	1000	<50
JUN											
26...	41	5.6	<.100	<.005	--	.60	6.2	.120	.050	1500	<50
JUL											
30...	6	3.5	<.100	<.004	--	.80	4.3	.100	.040	1300	79
AUG											
27...	19	2.1	<.100	<.012	--	.70	2.8	.280	.010	540	100

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT											
26...	65	56	<1	<.5	2600	2600	<3	<3	<5	<5	<5
DEC											
14...	55	44	<1	<.5	800	780	<3	<3	<5	<5	<5
FEB											
07...	72	66	<2	<2	550	560	<3	<3	6	6	<5
APR											
03...	67	54	<1	<.5	130	130	<3	<3	<5	<5	<5
25...	72	62	<1	<.5	62	62	<3	<3	<5	<5	<5
MAY											
16...	80	63	<1	<1	120	120	<3	3	<5	<5	<5
JUN											
26...	86	68	<1	<.5	1800	1800	<3	<3	10	<5	8
JUL											
30...	81	67	<1	<1	4100	4200	<3	<3	17	<5	6
AUG											
27...	67	60	<1	<.5	3900	3500	3	<3	17	15	<5

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05576250 SUGAR CREEK NEAR SPRINGFIELD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)
OCT											
26...	<5	34	<5	800	<50	<50	<50	150	97	--	20
DEC											
14...	<5	<5	<5	970	<50	<50	<50	140	91	<.1	6
FEB											
07...	<5	6	5	320	<50	<50	<50	130	53	--	11
APR											
03...	<5	<5	<5	990	<50	<50	<50	63	22	--	<5
25...	<5	<5	<5	750	<50	<50	<50	44	6	--	<5
MAY											
16...	5	7	<5	1300	200	<50	<50	40	15	--	<5
JUN											
26...	<5	7	<5	1500	<50	<100	<50	73	31	--	12
JUL											
30...	<5	6	<5	1200	<50	<50	<50	88	35	<.1	13
AUG											
27...	<5	6	<5	530	<50	<100	<50	73	17	--	23

DATE	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, TOTAL (UG/L AS V) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) (00556)
OCT										
26...	22	<3	<3	230	220	7	<5	--	--	1
DEC										
14...	<5	<3	<3	130	130	<5	<5	<100	<100	0
FEB										
07...	10	<3	<3	150	150	6	<5	<50	<50	0
APR										
03...	<5	<3	<3	110	110	<5	<5	<50	<50	0
25...	<5	<3	<3	120	120	<5	<5	<50	<50	0
MAY										
16...	<5	<3	4	100	100	6	8	<50	<50	1
JUN										
26...	<5	<3	<3	170	160	12	<5	100	<100	1
JUL										
30...	<5	<3	<3	220	210	29	15	<50	<50	0
AUG										
27...	16	6	5	220	220	37	33	<50	<50	11

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05576500 SANGAMON RIVER AT RIVERTON, IL

LOCATION.--Lat 39°50'34", long 89°32'52", in NE¼ sec.16, T.16 N., R.4 W., Sangamon County, Hydrologic Unit 07130008, at bridge on county road, 0.6 mi southwest of Riverton, 2.2 mi downstream from Sugar Creek, 5.6 mi upstream from Fancy Creek, and at mile 83.1.

DRAINAGE AREA.--2,618 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
DEC											
14...	1100	17002	17002	10100	422	7.2	4.0	6.6	11.0	24	4000
FEB											
15...	1400	17002	17002	14100	362	7.0	5.0	26	10.9	32	K4000
APR											
03...	0800	17002	17002	5950	480	7.5	8.0	7.3	10.0	0	K220
26...	0900	17002	17002	11200	378	7.1	13.0	160	9.4	34	2800
MAY											
31...	1100	17002	17002	10900	382	7.7	16.0	8.0	7.8	26	2500
JUN											
26...	1300	17002	17002	746	640	7.9	25.0	3.0	6.0	14	K260
JUL											
30...	1300	17002	17002	--	1680	7.6	24.5	12	8.0	63	K300
AUG											
27...	0900	17002	17002	38	1640	7.7	23.0	5.1	5.2	32	--

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
DEC											
14...	190	100	.00	45	43	20	19	12	12	3.0	2.6
FEB											
15...	150	90	.00	37	36	16	15	10	10	2.9	2.3
APR											
03...	220	110	.00	52	51	23	23	12	13	1.7	1.4
26...	140	120	.00	39	32	17	14	7.5	6.6	2.7	1.6
MAY											
31...	150	75	.00	40	35	17	15	8.8	8.2	2.4	1.9
JUN											
26...	290	110	.00	66	67	30	30	34	34	2.6	2.3
JUL											
30...	310	99	.00	66	66	36	36	220	210	9.4	8.8
AUG											
27...	310	110	.00	70	68	35	34	210	210	9.1	8.9

K Results based on colony count outside the acceptable range (non-ideal colony count).

05576500 SANGAMON RIVER AT RIVERTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
DEC											
14...	82	41	29	.2	100	20	6.6	<.100	<.001	—	1.3
FEB											
15...	62	38	23	.2	144	120	5.0	.210	<.001	1.8	2.0
APR											
03...	116	44	29	.2	72	8	8.3	<.100	<.001	—	1.0
26...	19	47	22	.3	65	15	5.8	.120	<.001	1.9	2.0
MAY											
31...	74	—	19	.2	94	16	7.4	<.100	<.002	—	1.3
JUN											
26...	177	63	47	.3	83	72	7.8	.100	.005	.80	.90
JUL											
30...	215	130	320	—	152	38	4.3	6.60	.149	4.4	11
AUG											
27...	197	150	280	.6	40	28	3.1	1.00	.025	1.5	2.5

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
DEC										
14...	7.9	.330	.150	2700	130	2	94	56	<1	<.5
FEB										
15...	7.0	.320	.020	5500	150	2	100	49	<1	<1
APR										
03...	9.3	.180	.100	1800	120	2	73	53	<1	<.5
26...	7.8	.290	.100	5500	72	4	100	50	<1	<.5
MAY										
31...	8.7	.290	.120	2800	<50	4	98	49	<1	<1
JUN										
26...	8.7	.340	.240	2000	<50	2	100	86	<1	<.5
JUL										
30...	15	2.10	1.60	2400	62	4	100	110	<2	<1
AUG										
27...	5.6	1.90	1.80	410	<50	4	84	71	<1	<.5

DATE	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
DEC										
14...	50	<50	<3	<3	12	<5	<5	<5	6	<5
FEB										
15...	54	62	<3	<3	<5	<5	<5	<5	8	<5
APR										
03...	<50	<50	<3	<3	<5	<5	<5	<5	<5	<5
26...	79	140	<3	<3	<5	<5	<5	<5	6	5
MAY										
31...	<50	<50	<3	<3	6	<5	<10	<5	7	<5
JUN										
26...	200	180	<3	<3	<5	<5	<5	<5	<5	<5
JUL										
30...	190	190	<3	<3	<5	12	<5	9	<5	<5
AUG										
27...	770	770	<3	<3	11	11	<5	<5	<5	<5

05576500 SANGAMON RIVER AT RIVERTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
DEC 14...	3100	91	<50	<50	130	53	<.1	9	<5	<3
FEB 15...	5800	90	<100	<50	150	30	<.1	11	<5	<3
APR 03...	2100	<50	<50	<50	68	22	<.1	<5	<5	<3
26...	6200	74	<50	<50	150	7	<.1	8	<5	<3
MAY 31...	2400	<50	<50	<50	84	<5	<.1	10	<5	<3
JUN 26...	2000	<50	<50	<50	140	45	<.1	7	<5	<3
JUL 30...	2500	<50	<50	<50	570	270	<.1	7	21	<3
AUG 27...	610	<50	<100	<50	840	700	<.1	25	23	6

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
DEC 14...	<3	98	92	7	<5	<100	<100	<.01	<5	0
FEB 15...	<3	83	77	8	<5	<50	<50	<.01	5	0
APR 03...	<3	110	100	<5	<5	<50	<50	<.01	<5	1
26...	<3	90	79	11	<5	<50	<50	<.01	<5	0
MAY 31...	<3	90	80	8	<5	<50	<50	<.01	<5	1
JUN 26...	<3	150	150	<5	<5	<100	<100	<.01	<5	0
JUL 30...	5	160	160	<5	5	<50	<50	<.01	<5	1
AUG 27...	5	180	170	5	<5	<50	<50	<.01	<5	1

05577500 SPRING CREEK AT SPRINGFIELD, IL

LOCATION.--Lat 39°48'57", long 89°41'57", in NW¼NE¼ sec.30, T.16 N., R.5 W., Sangamon County, Hydrologic Unit 07130008, on right bank at downstream side of bridge on State Highway 125 in Springfield, 0.8 mi downstream from Chicago and North Western Railroad bridge, 1.9 mi west of intersection of Jefferson Street and MacArthur Boulevard, and at mile 8.2.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--January to September 1948, December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 524.65 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1948, and Mar. 24, 1981, to Mar. 30, 1983, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--35 years (water years 1950-84), 67.5 ft³/s, 8.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,080 ft³/s Dec. 3, 1982, gage height, 14.44 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 16	--	1100	Unknown	May 13	0930	778	9.08
Mar. 20	--	900	Unknown	May 21	0245	1100	9.90
Apr. 22	1215	*1580	*10.66	May 26	1445	939	9.51
Apr. 30	1130	843	9.26				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	1.3	18	12	37	60	149	242	167	24	6.4	.00
2	.00	27	15	13	62	54	141	204	143	18	5.9	.00
3	.00	8.8	18	14	103	52	167	178	124	16	17	.00
4	.00	4.5	33	17	82	50	213	159	120	120	8.5	.00
5	.00	3.7	32	21	56	48	225	138	107	78	5.6	.00
6	.00	4.2	30	30	35	46	194	125	94	57	5.1	.00
7	.00	3.2	27	33	28	45	158	114	86	45	4.0	.00
8	.00	2.8	21	36	26	43	149	101	81	36	3.5	34
9	.00	3.2	19	40	29	42	150	93	133	33	3.3	34
10	.00	45	20	39	35	41	141	85	136	31	2.7	9.8
11	.00	8.5	244	31	66	41	128	83	84	35	2.3	34
12	5.8	6.2	163	28	100	41	132	74	72	34	2.0	1.7
13	4.2	6.7	107	25	150	42	124	441	129	28	1.8	.00
14	1.4	5.7	86	22	200	47	107	335	157	22	1.6	.00
15	1.3	5.0	71	19	175	400	101	169	52	143	1.3	.00
16	1.2	3.4	54	18	160	900	117	131	53	95	1.2	.00
17	.67	3.4	46	16	160	600	108	114	51	42	1.1	.00
18	.33	4.2	37	15	163	400	97	103	46	30	4.3	.00
19	7.0	5.7	32	14	166	500	86	107	42	25	3.1	.00
20	15	24	28	13	140	800	81	558	39	21	1.6	.00
21	85	6.4	25	13	124	450	310	933	36	19	1.1	.00
22	40	4.5	23	13	109	250	700	529	36	16	3.3	.00
23	15	45	21	14	98	200	209	489	55	13	2.8	14
24	6.7	35	19	16	86	200	358	374	77	12	1.5	1.1
25	4.5	19	18	20	75	380	324	446	48	9.8	1.2	.00
26	2.6	11	17	25	66	534	258	824	40	18	.84	.00
27	2.0	122	16	33	59	306	219	629	38	14	.52	.00
28	2.6	156	15	42	50	210	178	508	34	11	.33	.00
29	1.8	44	14	50	56	189	208	278	29	8.8	.06	.00
30	1.6	26	13	46	---	165	614	240	26	7.9	.00	.00
31	1.3	---	12	42	---	155	---	196	---	7.0	.00	---
TOTAL	200.22	645.4	1294	770	2696	7451	6146	9000	2335	1069.5	93.95	128.60
MEAN	6.46	21.5	41.7	24.8	93.0	240	205	290	77.8	34.5	3.03	4.29
MAX	85	156	244	50	200	900	700	933	167	143	17	34
MIN	.00	1.3	12	12	26	41	81	74	26	7.0	.00	.00
CFSM	.06	.20	.39	.23	.87	2.24	1.92	2.71	.73	.32	.03	.04
IN.	.07	.22	.45	.27	.94	2.59	2.14	3.13	.81	.37	.03	.04

CAL YR 1983 TOTAL 27260.74 MEAN 74.6 MAX 923 MIN .00 CFSM .70 IN. 9.47
WTR YR 1984 TOTAL 31829.67 MEAN 87.0 MAX 933 MIN .00 CFSM .81 IN. 11.07

05577505 SPRING CREEK AT BURNS LANE BRIDGE AT SPRINGFIELD, IL

LOCATION.--Lat 39°49'16", long 89°41'16", in SW¼ sec.20, T.16 N., R.5 W., Sangamon County, Hydrologic Unit 07130008, at bridge on Burns Lane at northwest side of Springfield, 1.6 mi downstream from Jacksonville Branch, 5.8 mi upstream from Spring Creek tributary, and at mile 6.7.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--Water years 1979 to current year.

REMARKS.--Water discharges records for Spring Creek at Springfield (station 05577500) were used to estimate discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
18...	1300	17002	17002	.00	611	7.3	14.5	--	6.7	38	380
DEC											
01...	1230	17002	17002	18	496	6.9	1.0	--	13.7	26	6000
FEB											
01...	1400	17002	17002	E37	615	7.0	.0	1.9	11.3	9	220
MAR											
20...	1300	17002	17002	968	274	7.6	3.0	120	12.0	55	K1100
APR											
10...	1300	17002	17002	140	630	7.4	10.0	2.1	10.9	15	K50
MAY											
07...	0800	17002	17002	118	--	--	--	3.8	--	20	260
JUN											
12...	1300	17002	17002	72	625	7.4	23.0	16	6.1	14	2300
JUL											
10...	1400	17002	17002	29	610	8.0	25.0	8.3	7.1	14	K2600
AUG											
20...	1300	17002	17002	1.2	609	7.3	23.0	4.5	2.0	29	380

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT											
18...	--	53	--	18	--	31	--	4.6	--	47	--
DEC											
01...	260	60	61	25	26	12	12	3.6	3.6	66	22
FEB											
01...	290	66	66	30	30	18	17	1.9	1.8	61	34
MAR											
20...	130	35	30	17	13	5.5	5.2	3.8	2.5	36	19
APR											
10...	330	74	73	37	36	10	9.5	1.1	.94	53	26
MAY											
07...	390	87	86	44	43	9.2	9.4	1.1	.85	52	23
JUN											
12...	320	71	70	34	34	11	10	1.7	1.0	48	21
JUL											
10...	320	70	69	35	35	11	11	1.6	1.1	48	23
AUG											
20...	260	63	63	26	26	25	25	3.1	2.9	100	39

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05577505 SPRING CREEK AT BURNS LANE BRIDGE AT SPRINGFIELD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
OCT 18...	11	8	<.10	.750	.004	.540	--	210	--	72	--
DEC 01...	88	6	6.0	<.100	<.001	.310	.190	700	57	86	70
FEB 01...	4	0	6.6	<.100	<.001	.160	.100	240	55	71	67
MAR 20...	205	45	6.2	.160	<.001	.680	.150	10000	220	200	43
APR 10...	36	4	11	<.100	<.001	.070	.040	660	81	82	72
MAY 07...	92	12	11	.180	--	.110	.040	1500	<50	98	78
JUN 12...	180	30	13	<.100	<.001	.160	.060	3400	69	100	97
JUL 10...	92	80	10	<.100	<.006	.130	.080	3000	<50	100	100
AUG 20...	28	24	.20	.360	.004	.210	.110	410	<50	100	110

DATE	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT 18...	<1	--	120	--	<3	--	5	--	<5	--
DEC 01...	<1	<1	<50	<50	<3	<3	<5	<5	<5	<5
FEB 01...	<1	<1	<50	<50	<3	<3	<5	<5	<5	<5
MAR 20...	<2	<.5	<50	<50	7	11	17	<5	14	<5
APR 10...	<1	<.5	<50	<50	<3	<3	<5	<5	<5	<5
MAY 07...	<1	<.5	<50	<50	<3	<3	<5	<5	<5	<5
JUN 12...	<1	<.5	<50	54	3	4	6	<5	14	11
JUL 10...	<1	<.5	<50	<50	5	<3	7	<5	<5	<5
AUG 20...	<1	<1	100	100	<3	<3	<5	<5	<5	<5

05577505 SPRING CREEK AT BURNS LANE BRIDGE AT SPRINGFIELD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT 18...	<5	--	1300	--	<50	--	1200	--	--	8
DEC 01...	<5	<5	1100	<50	<50	<50	91	58	--	<5
FEB 01...	<5	<5	250	<50	<50	<50	59	52	--	11
MAR 20...	19	<5	12000	110	100	<50	410	77	--	28
APR 10...	<5	<5	810	<50	<50	<50	73	41	--	<5
MAY 07...	<5	<5	1900	70	<50	<50	120	49	--	<5
JUN 12...	8	<5	3600	<50	<100	<50	170	40	<.1	16
JUL 10...	5	<5	3100	<50	<50	<50	150	53	--	12
AUG 20...	<5	<5	790	<50	<50	<50	1100	860	--	<5

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 18...	--	<3	--	120	--	<5	--	<50	--	1
DEC 01...	<5	<3	<3	130	130	<5	<5	<50	<50	3
FEB 01...	6	<3	<3	140	140	<5	<5	<50	<50	0
MAR 20...	5	<3	<3	81	64	24	<5	<100	<50	1
APR 10...	<5	<3	<3	150	150	<5	<5	<50	<50	1
MAY 07...	<5	<3	<3	150	150	10	<5	<100	<100	0
JUN 12...	10	<3	3	170	170	10	<5	<50	<50	0
JUL 10...	<5	<3	<3	180	180	10	<5	<50	<50	1
AUG 20...	<5	<3	<3	170	170	<5	<5	<50	<50	1

05578000 SANGAMON RIVER AT PETERSBURG, IL

LOCATION.--Lat 40°00'37", long 89°50'42", in NW¼ sec.13, T.18 N., R.7 W., Menard County, Hydrologic Unit 07130008, at bridge on State Highway 23 at east edge of Petersburg, 2.8 mi upstream from Indian Creek, 2.9 mi downstream from Rocky Branch, and at mile 43.9.

DRAINAGE AREA.--3,063 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 13...	1200	17002	17002	199	651	7.0	14.5	5.1	6.9	31	K360
DEC 01...	1000	17002	17002	2730	480	6.9	4.5	8.3	12.0	30	2000
FEB 01...	1000	17002	17002	2710	634	7.2	.0	3.1	11.5	10	K400
MAR 20...	1100	17002	17002	13000	408	8.3	3.0	64	12.2	24	2100
APR 10...	1100	17002	17002	4610	575	7.4	10.0	3.5	10.0	20	230
MAY 02...	1200	17002	17002	6070	528	7.2	15.0	6.6	8.4	19	3000
JUN 12...	1100	17002	17002	1980	604	7.3	24.0	20	6.5	16	K600
JUL 10...	0900	17002	17002	668	730	8.1	26.0	6.7	7.1	20	K150
AUG 20...	1000	17002	17002	168	1100	8.4	25.0	14	8.3	31	K180

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT 13...	--	--	.00	68	--	30	--	150	--	7.7	--
DEC 01...	--	--	.00	51	--	25	--	27	--	3.8	--
FEB 01...	--	--	.00	58	--	25	--	33	--	2.5	--
MAR 20...	190	100	.00	48	45	22	20	12	11	2.6	2.0
APR 10...	280	130	--	64	63	29	29	15	15	1.9	1.6
MAY 02...	340	190	.00	76	75	37	36	15	15	2.1	1.7
JUN 12...	290	110	.00	65	64	30	28	20	20	2.7	2.0
JUL 10...	300	100	.00	67	67	31	31	48	48	3.3	2.9
AUG 20...	300	240	.00	71	68	33	31	120	120	6.4	6.1

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05578000 SANGAMON RIVER AT PETERSBURG, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
OCT 13...	200	150	170	42	12	2.2	<.100	<.001	1.50	1.30	840
DEC 01...	110	50	41	154	12	3.3	.390	<.001	.400	.200	2100
FEB 01...	140	64	55	28	0	5.2	1.20	.002	.300	.190	900
MAR 20...	92	44	26	100	15	6.7	.180	.004	.360	.120	4000
APR 10...	143	50	33	108	13	8.4	<.100	<.001	.210	.120	1700
MAY 02...	145	50	29	105	20	7.8	<.100	<.001	.240	.140	2800
JUN 12...	163	54	31	196	36	8.3	<.100	<.001	.280	.180	3600
JUL 10...	192	64	60	75	65	6.3	<.100	<.008	.620	.430	2000
AUG 20...	59	110	160	67	50	2.0	<.100	<.013	1.10	.750	550

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
OCT 13...	--	69	--	<1	--	720	--	<3	--	<5	--
DEC 01...	--	100	--	<1	--	77	--	<3	--	<5	--
FEB 01...	--	75	--	<1	--	150	--	<3	--	6	--
MAR 20...	160	100	53	<1	<.5	51	<50	<3	13	<5	<5
APR 10...	92	85	61	<1	<.5	54	52	<3	<3	<5	<5
MAY 02...	<50	100	64	<1	<.5	54	<50	<3	<3	<5	<5
JUN 12...	<50	100	81	<1	<.5	100	92	5	3	7	<5
JUL 10...	<50	100	84	<1	<.5	180	180	<3	<3	7	<5
AUG 20...	<50	96	74	<1	<1	460	450	<3	<3	<5	<5

05576000 SANGAMON RIVER AT PETERSBURG, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT 13...	<5	--	<5	--	890	--	<50	--	300	--	<.1
DEC 01...	<5	--	6	--	3300	--	<50	--	230	--	<.1
FEB 01...	<5	--	<5	--	1100	--	<50	--	110	--	<.1
MAR 20...	<5	<5	7	<5	4900	95	<100	<50	160	14	<.1
APR 10...	<5	<5	<5	<5	2200	<50	<50	<50	100	12	<.1
MAY 02...	<5	<5	6	<5	3300	<50	<50	<50	130	9	<.1
JUN 12...	12	7	9	<5	4000	<50	<100	<100	200	10	<.1
JUL 10...	<5	<5	<5	<5	2100	<50	<50	<50	150	<5	<.1
AUG 20...	<5	<5	<5	<5	700	<50	<50	<50	390	66	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 13...	<5	--	<3	--	150	--	<5	--	<100	--	2
DEC 01...	<5	--	<3	--	120	--	<5	--	<100	--	0
FEB 01...	9	--	<3	--	130	--	<5	--	<50	--	0
MAR 20...	13	<5	<3	<3	100	96	8	<5	<100	<50	1
APR 10...	<5	<5	<3	<3	130	130	6	<5	<50	<50	0
MAY 02...	<5	<5	<3	<3	120	120	7	<5	<100	<100	0
JUN 12...	19	7	<3	<3	150	140	12	<5	<100	<50	0
JUL 10...	10	7	<3	<3	160	160	5	<5	<50	<50	1
AUG 20...	<5	<5	<3	<3	170	160	<5	<5	<100	<100	1

05578500 SALT CREEK NEAR ROWELL, IL

LOCATION.--Lat 40°06'54", long 89°02'57", in NE¼SE¼ sec.11, T.19 N., R.1 E., De Witt County, Hydrologic Unit 07130009, on right bank at downstream side of highway bridge, 0.5 mi upstream from State Highway 54, 0.8 mi upstream from Illinois Central Gulf Railroad bridge and Ten Mile Creek, 3.2 mi northwest of Rowell, and at mile 65.3.

DRAINAGE AREA.--335 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Beginning Oct. 12, 1977, flow partially regulated by Clinton Reservoir 11 mi upstream from gage.

AVERAGE DISCHARGE.--35 years (water years 1943-77), 237 ft³/s, 9.61 in/yr, prior to construction of Clinton Reservoir. 7 years, 281 ft³/s, since construction of Clinton Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s May 16, 1968, gage height, 29.21 ft; minimum, 0.7 ft³/s Oct. 4, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,880 ft³/s May 27, gage height, 19.63 ft; minimum daily, 7.2 ft³/s Oct. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	11	19	110	170	324	926	494	1310	88	20	9.4
2	7.2	20	19	105	200	317	799	470	1030	81	18	9.2
3	7.2	19	18	100	480	301	764	434	847	75	17	9.5
4	7.2	15	30	96	420	301	736	402	731	100	17	9.5
5	8.1	16	31	92	350	276	694	363	622	96	17	9.7
6	7.8	14	43	90	300	240	646	340	535	93	16	9.8
7	7.8	14	55	95	250	225	594	313	467	85	15	9.3
8	7.8	14	73	100	200	210	560	274	409	79	14	11
9	8.1	13	80	110	190	200	587	242	500	66	13	25
10	8.1	19	84	160	180	180	565	241	549	55	13	11
11	8.7	17	364	250	175	170	537	234	543	63	13	14
12	15	14	443	200	269	160	509	236	479	69	14	11
13	13	13	515	185	1460	150	467	222	420	54	14	10
14	13	13	547	165	1790	160	458	220	384	47	12	11
15	14	13	517	150	1970	204	445	205	353	57	12	13
16	14	14	460	140	1780	786	430	191	306	57	12	10
17	14	13	415	130	1600	890	398	166	269	46	12	10
18	16	13	370	125	1410	944	368	149	245	38	12	11
19	15	15	330	118	1260	1200	349	140	233	34	12	10
20	21	32	290	112	1090	1870	332	387	217	32	12	9.8
21	31	24	265	109	954	1780	402	692	203	33	11	9.9
22	73	19	235	100	834	1800	813	979	188	33	11	9.2
23	17	26	210	108	738	1670	757	1400	183	30	11	12
24	11	24	190	130	662	1530	813	1500	176	26	11	11
25	10	16	170	150	580	1730	821	1560	152	25	11	10
26	8.6	14	155	190	520	1860	774	2220	135	46	10	8.9
27	8.9	50	150	235	517	1940	712	2750	113	46	9.6	9.0
28	9.2	74	140	260	458	1830	648	2520	109	36	11	9.9
29	9.5	35	130	300	352	1660	616	2110	104	35	10	9.7
30	9.6	23	125	230	---	1400	504	1830	99	28	10	9.3
31	9.8	---	115	190	---	1130	---	1580	---	23	9.6	---
TOTAL	418.4	617	6588	4634	21159	27518	18024	24864	11911	1676	400.4	322.1
MEAN	13.5	20.6	213	149	730	888	601	802	397	54.1	12.9	10.7
MAX	73	74	547	300	1970	1940	926	2750	1310	100	20	25
MIN	7.2	11	18	90	170	150	332	140	99	23	9.6	8.9

CAL YR 1983 TOTAL 106011.6 MEAN 290 MAX 2260 MIN 7.2
WTR YR 1984 TOTAL 118131.9 MEAN 323 MAX 2750 MIN 7.2

05578500 SALT CREEK NEAR ROWELL, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
31...	1200	17002	17002	9.6	599	7.1	10.0	--	7.8	16	K50	290
JAN												
11...	1400	17002	17002	E250	540	7.5	.0	3.9	13.8	10	K5	260
FEB												
15...	1000	17002	17002	1980	542	7.4	4.0	2.2	11.9	23	K180	270
APR												
04...	1100	17002	17002	738	456	7.9	6.0	4.7	12.5	8	--	230
MAY												
01...	1100	17002	17002	513	--	--	--	6.6	--	11	K100	240
JUN												
06...	1200	17002	17002	548	434	7.8	20.0	3.3	8.0	15	K240	230
27...	1200	17002	17002	115	520	7.3	22.0	3.2	6.4	20	240	250
AUG												
02...	1200	17002	17002	19	603	7.9	26.0	2.9	7.6	10	700	270
SEP												
12...	1100	17002	17002	11	612	7.6	22.0	4.6	6.8	14	740	240

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT												
31...	61	61	33	34	44	42	2.9	2.8	10	5	28	<.100
JAN												
11...	54	53	33	32	16	17	2.0	1.9	6	2	2.4	<.100
FEB												
15...	55	55	32	32	8.8	9.1	2.0	2.0	26	20	3.2	<.100
APR												
04...	53	52	26	25	7.2	7.3	1.5	1.4	39	4	5.7	<.100
MAY												
01...	56	55	27	26	5.8	5.8	1.6	1.5	42	0	6.2	<.100
JUN												
06...	51	51	24	24	8.1	8.1	1.9	1.4	85	15	6.8	<.100
27...	58	54	29	27	12	12	2.1	1.6	80	70	6.4	<.100
AUG												
02...	59	57	31	30	31	31	2.5	2.4	27	5	4.0	<.100
SEP												
12...	51	50	27	27	38	36	3.6	3.4	56	6	3.5	.110

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05578500 SALT CREEK NEAR ROWELL, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
OCT												
31...	<.001	.470	--	320	100	79	75	<1	<.5	150	170	<3
JAN												
11...	<.001	.100	.070	130	61	73	67	<1	<2	110	90	3
FEB												
15...	<.001	.060	.050	560	<50	68	62	<1	<.5	<50	<50	<3
APR												
04...	<.001	.080	.050	590	<50	55	47	<1	<.5	<50	<50	<3
MAY												
01...	--	.020	--	640	<50	59	49	<1	<.5	<50	<50	<3
JUN												
06...	<.003	.110	.050	1400	<50	76	60	<1	<1	<50	<50	<3
27...	<.001	.160	.070	1900	<50	92	66	<1	<1	54	54	4
AUG												
02...	<.004	.360	.320	660	<50	88	78	<1	<1	120	120	<3
SEP												
12...	.002	.660	.520	1300	<50	96	84	<1	<.5	150	150	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT												
31...	<3	15	7	<5	<5	7	6	580	61	<50	<50	140
JAN												
11...	<3	<5	<5	<5	<5	6	<5	240	<50	<50	<50	80
FEB												
15...	<3	<5	<5	<5	<5	<5	<5	660	<50	<50	<50	84
APR												
04...	<3	<5	<5	<5	<5	<5	<5	700	<50	<50	<50	56
MAY												
01...	<3	<5	<5	<5	<5	<5	<5	980	<50	<50	<50	95
JUN												
06...	<3	52	6	9	<5	7	<5	1700	<50	<100	<50	95
27...	<3	<5	<5	<5	<5	7	<5	2200	<50	<50	<50	130
AUG												
02...	<3	14	8	10	5	<5	<5	840	<50	<50	<50	94
SEP												
12...	<3	<5	9	<5	10	5	<5	1200	<50	<50	<50	110

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
31...	120	26	15	<3	<3	160	160	<5	<5	<100	<50
JAN											
11...	55	<5	<5	<3	<3	120	120	<5	<5	<50	<50
FEB											
15...	36	<5	<5	<3	<3	110	110	<5	<5	<50	<50
APR											
04...	10	<5	<5	<3	<3	88	87	<5	<5	<50	<50
MAY											
01...	8	13	<5	<3	<3	91	90	<5	<5	<50	<50
JUN											
06...	11	30	<5	<3	<3	100	97	11	5	<50	<50
27...	12	11	<5	<3	<3	120	110	5	<5	130	130
AUG											
02...	42	8	<5	<3	<3	150	150	6	<5	<100	<50
SEP											
12...	38	<5	7	<3	6	150	150	<5	6	<50	<50

05579500 LAKE FORK NEAR CORNLAND, IL

LOCATION.--Lat 39°57'00", long 89°23'10", in NW1/4 sec.1, T.17 N., R.3 W., Logan County, Hydrologic Unit 07130009, near center of span on upstream side of bridge on State Highway 54, 100 ft upstream from Illinois Central Gulf Railroad bridge, 2.0 mi northeast of Cornland, 8 mi downstream from Jones Fork, and at mile 12.9.

DRAINAGE AREA.--214 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 555.06 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 6, 1973, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--36 years, 155 ft³/s, 9.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,930 ft³/s Apr. 12, 1979, gage height, 23.11 ft; minimum, 0.91 ft³/s Oct. 30, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 23.4 ft, from floodmarks, discharge, 29,000 ft³/s, by contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 14	0330	1450	14.50	Apr. 22	1045	1750	15.45
Mar. 21	1030	2040	16.23	May 27	0930	*2050	*16.25
Mar. 26	0245	1310	14.09				

Minimum discharge, 4.0 ft³/s Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	4.9	44	43	64	205	438	266	461	71	15	5.6
2	4.7	6.9	42	42	136	215	397	248	393	69	14	5.5
3	4.5	8.3	39	41	401	206	395	255	332	67	14	6.2
4	4.8	8.3	41	39	391	190	452	221	299	72	13	5.7
5	5.4	7.2	45	38	225	170	446	198	273	74	12	5.3
6	5.2	6.6	56	39	178	160	403	187	242	67	12	5.4
7	5.0	6.6	50	41	150	150	356	182	222	64	11	5.2
8	4.9	6.0	55	44	130	135	331	171	210	59	11	7.1
9	4.8	4.9	50	47	120	125	326	170	205	56	11	10
10	4.7	11	47	52	110	115	313	164	185	54	10	8.2
11	8.3	9.8	335	124	110	110	300	163	169	52	9.6	9.2
12	11	6.0	562	102	597	100	297	147	160	50	9.3	6.7
13	9.4	5.7	416	82	1410	96	274	147	152	45	8.7	5.5
14	6.9	5.2	342	76	1310	100	258	142	145	41	9.2	6.0
15	6.6	5.7	290	70	815	225	252	136	138	38	8.6	6.2
16	6.0	5.7	236	66	652	858	254	131	136	34	8.4	5.9
17	5.7	5.2	197	62	642	823	245	130	131	30	8.2	5.7
18	5.7	4.9	169	60	608	722	230	128	132	29	9.2	5.5
19	7.2	5.7	140	56	624	901	213	130	119	26	9.0	4.9
20	9.0	9.8	120	54	546	1730	192	539	112	26	8.4	4.8
21	19	10	100	52	483	1970	241	832	110	26	8.1	4.5
22	60	11	80	50	430	1370	1580	717	108	24	8.8	4.5
23	29	19	70	52	381	826	1250	910	104	22	8.4	7.9
24	16	21	60	56	333	686	869	641	95	21	7.3	5.8
25	12	19	56	66	290	1160	671	757	90	20	7.4	5.3
26	10	14	54	78	259	1240	551	1820	88	22	7.5	4.6
27	19	37	50	88	235	937	468	1980	87	24	6.9	4.7
28	5.2	95	49	70	137	790	376	1280	81	20	6.8	4.9
29	5.2	70	47	62	176	648	336	789	78	18	6.2	4.8
30	5.7	53	46	55	---	547	328	615	74	17	6.2	4.4
31	4.9	---	44	48	---	485	---	528	---	16	5.6	---
TOTAL	311.4	483.4	3930	1855	11943	17995	13042	14724	5131	1254	290.8	176.0
MEAN	10.0	16.1	127	59.8	412	580	435	475	171	40.5	9.38	5.87
MAX	60	95	562	124	1410	1970	1580	1980	461	74	15	10
MIN	4.5	4.9	39	38	64	96	192	128	74	16	5.6	4.4
CFSM	.05	.08	.59	.28	1.93	2.71	2.03	2.22	.80	.19	.04	.03
IN.	.05	.08	.68	.32	2.08	3.13	2.27	2.56	.89	.22	.05	.03

CAL YR 1983 TOTAL 80956.4 MEAN 222 MAX 4410 MIN 4.0 CFSM 1.04 IN. 14.07
WTR YR 1984 TOTAL 71135.6 MEAN 194 MAX 1980 MIN 4.4 CFSM .91 IN. 12.37

05579500 LAKE FORK NEAR CORNLAND, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site EIG 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
OCT												
31...	1300	17002	17002	4.7	678	7.0	9.5	4.3	7.4	9	K50	380
JAN												
12...	0900	17002	17002	103	692	7.3	.0	1.9	12.9	4	K40	380
FEB												
15...	1200	17002	17002	781	582	7.0	6.0	9.3	10.5	17	K160	290
APR												
04...	1300	17002	17002	456	610	7.5	7.0	8.5	10.6	6	--	330
MAY												
01...	0900	17002	17002	272	642	7.2	10.0	12	9.5	11	K150	360
JUN												
04...	1400	17002	17002	293	661	7.8	16.0	1.1	9.0	6	310	340
27...	1400	17002	17002	87	700	7.6	22.0	4.2	6.2	14	220	380
AUG												
02...	1400	17002	17002	14	646	8.0	26.0	6.2	11.7	13	490	340
SEP												
12...	1300	17002	17002	6.3	583	7.7	25.0	3.1	9.8	11	K260	320

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT												
31...	89	88	38	39	12	12	2.0	1.9	22	12	2.8	<.100
JAN												
12...	87	87	39	39	10	11	.9	.94	70	18	7.5	.110
FEB												
15...	71	67	31	29	6.0	6.2	1.5	.96	224	194	9.9	<.100
APR												
04...	75	75	35	34	6.6	6.6	.9	.60	114	7	9.5	<.100
MAY												
01...	81	81	38	38	5.4	5.5	.8	.64	100	8	10	<.100
JUN												
04...	82	79	37	35	8.8	8.4	1.2	.54	172	20	11	<.100
27...	86	86	39	39	9.4	9.4	1.0	.53	92	81	8.2	<.100
AUG												
02...	77	74	38	38	12	11	1.1	.85	55	10	<.10	<.100
SEP												
12...	71	70	34	34	8.5	8.4	1.4	1.3	44	7	.15	.140

K Results based on colony count outside the acceptable range (non-ideal colony count).

05579500 LAKE FORK NEAR CORTLAND, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
OCT												
31...	<.001	.090	.020	320	75	100	110	<1	<.5	53	54	<3
JAN												
12...	<.001	.040	.020	200	<50	80	77	<2	<1	53	<50	<3
FEB												
15...	<.001	.200	.130	3600	93	100	68	<1	<.5	<50	<50	<3
APR												
04...	<.001	.090	.020	1400	100	81	64	<1	<.5	<50	<50	<3
MAY												
01...	<.001	.180	.030	930	<50	81	68	<1	<.5	<50	<50	<3
JUN												
04...	<.002	.120	.020	2600	<50	100	78	<1	<1	<50	<50	3
27...	<.002	.140	.030	2300	<50	100	86	<1	<.5	<50	<50	5
AUG												
02...	<.006	.090	.010	930	<50	100	100	<1	<.5	<50	<50	<3
SEP												
12...	.004	.080	.020	530	<50	100	87	<1	<.5	<50	<50	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT												
31...	<3	7	<5	6	<5	<5	<5	660	<50	<50	<50	550
JAN												
12...	<3	<5	<5	<5	<5	<5	<5	370	<50	<50	<50	130
FEB												
15...	<3	<5	<5	<5	<5	11	<5	4400	<50	<50	<50	190
APR												
04...	<3	<5	<5	<5	<5	<5	<5	1900	<50	<50	<50	95
MAY												
01...	<3	<5	<5	<5	<5	<5	<5	1500	<50	<50	<50	93
JUN												
04...	<3	12	6	6	<5	<5	<5	3000	<50	<50	<50	130
27...	<3	11	<5	6	<5	<5	<5	2800	<50	<100	<50	170
AUG												
02...	<3	14	8	12	9	<5	<5	1300	58	<50	<50	610
SEP												
12...	<3	<5	<5	<5	<5	<5	<5	1100	<50	<50	<50	310

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
31...	480	20	17	<3	<3	160	170	<5	<5	<50	<50
JAN											
12...	110	<5	<5	<3	<3	150	150	<5	<5	<50	<50
FEB											
15...	41	12	<5	<3	<3	120	110	5	<5	<50	<50
APR											
04...	32	<5	<5	<3	<3	120	120	<5	<5	<100	<100
MAY											
01...	36	<5	<5	<3	<3	130	130	<5	<5	<50	<50
JUN											
04...	32	12	6	<3	<3	150	150	11	<5	<100	<50
27...	33	16	<5	<3	<3	160	160	<5	<5	--	--
AUG											
02...	490	8	<5	<3	<3	180	180	6	<5	<50	<50
SEP											
12...	160	5	<5	<3	<3	160	150	<5	<5	<50	<50

05580000 KICKAPOO CREEK AT WAYNESVILLE, IL

LOCATION.--Lat 40°15'20", long 89°07'40", on line between secs.19 and 20, T.21 N., R.1 E., De Witt County, Hydrologic Unit 07130009, near center of span on downstream side of bridge, 0.5 mi downstream from Rock Creek, 0.7 mi south of Waynesville and Waynesville-McLean Road, and at mile 25.3.

DRAINAGE AREA.--227 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WSP 1175: 1948-49.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 620.24 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Sept. 3, 1970, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--36 years, 161 ft³/s, 9.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,600 ft³/s Aug. 15, 1981, gage height, 16.91 ft; minimum, 0.1 ft³/s Oct. 23, 25, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 16	1600	3250	12.95	May 21	0100	2800	12.50
Mar. 20	1800	3550	13.19	May 23	0800	2870	12.57
Mar. 25	1400	2450	12.07	May 26	0930	*4260	*13.62
Apr. 22	1300	1700	10.20	June 9	0415	2230	11.57

Minimum discharge, 0.90 ft³/s Oct. 6, 8, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.3	28	36	55	150	342	230	417	79	15	4.0
2	3.3	3.4	19	35	110	170	321	224	356	76	14	4.1
3	2.9	9.8	17	34	230	190	321	225	302	76	14	4.3
4	3.1	6.2	20	33	470	170	363	212	270	100	30	3.4
5	2.5	4.3	24	32	350	150	363	188	250	75	28	3.0
6	2.3	3.5	30	33	210	140	342	178	226	72	15	2.9
7	1.5	3.7	51	35	160	130	321	176	209	63	13	2.9
8	1.2	3.0	43	38	130	120	282	164	505	56	11	5.5
9	1.2	3.0	30	42	120	110	342	158	1610	53	11	10
10	1.0	4.8	26	68	110	100	363	150	508	52	12	16
11	.94	5.2	182	110	100	95	328	152	336	53	9.7	10
12	2.5	6.9	489	94	200	92	316	154	272	59	8.5	12
13	3.3	5.6	255	94	500	92	310	139	237	48	7.3	6.9
14	4.2	4.7	199	82	1300	86	265	131	209	43	6.5	6.4
15	2.6	3.9	176	74	1100	385	248	122	189	45	7.9	5.9
16	2.2	3.7	142	66	900	2240	252	112	184	45	7.9	4.6
17	2.7	4.7	133	62	740	1240	245	105	171	36	7.8	4.0
18	2.1	4.1	115	58	600	686	231	105	159	33	8.8	3.6
19	1.9	5.3	100	52	500	874	210	107	151	31	9.1	3.1
20	2.7	8.0	88	49	420	2280	197	1360	141	29	7.4	2.7
21	6.3	15	76	46	340	1350	257	1790	135	31	5.7	3.0
22	22	8.8	68	44	280	772	1450	1160	134	29	5.5	3.2
23	16	13	62	41	235	639	1020	2220	192	27	5.4	3.2
24	7.8	29	56	39	190	627	740	852	315	26	5.3	3.3
25	5.4	16	52	45	170	1670	584	1060	124	24	5.8	3.5
26	4.7	11	49	51	150	1200	483	3470	111	39	4.9	2.8
27	4.3	13	46	62	140	848	405	1050	105	34	4.3	2.9
28	3.9	69	44	54	130	710	318	916	95	27	4.1	3.3
29	3.0	56	42	45	140	570	288	891	90	21	4.0	2.9
30	2.4	32	39	40	---	418	293	617	85	16	4.0	2.8
31	2.3	---	38	36	---	385	---	493	---	15	4.0	---
TOTAL	125.54	358.9	2739	1630	10080	18689	11800	18911	8092	1413	296.9	146.2
MEAN	4.05	12.0	88.4	52.6	348	603	393	610	270	45.6	9.58	4.87
MAX	22	69	489	110	1300	2280	1450	3470	1610	100	30	16
MIN	.94	2.3	17	32	55	86	197	105	85	15	4.0	2.7
CFSM	.02	.05	.39	.23	1.53	2.66	1.73	2.69	1.19	.20	.04	.02
IN.	.02	.06	.45	.27	1.65	3.06	1.93	3.10	1.33	.23	.05	.02

CAL YR 1983 TOTAL 62803.24 MEAN 172 MAX 1500 MIN .94 CFSM .76 IN. 10.29
WTR YR 1984 TOTAL 74281.54 MEAN 203 MAX 3470 MIN .94 CFSM .89 IN. 12.17

05580000 KICKAPOO CREEK AT WAYNESVILLE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYSING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
04...	1400	17002	17002	2.9	660	7.8	19.0	--	9.4	21	940	--
DEC												
01...	1000	17002	17002	29	584	8.8	.0	2.9	12.9	14	K300	310
JAN												
19...	0900	17002	17002	E52	766	7.3	.0	1.0	13.0	7	K45	420
MAR												
15...	0900	17002	17002	110	654	7.3	3.0	9.4	12.5	24	K320	320
APR												
23...	1000	17002	17002	983	510	7.6	7.0	54	11.0	23	500	260
MAY												
14...	1000	17002	17002	123	644	7.6	14.0	2.5	9.9	1	K90	390
JUN												
25...	1300	17002	17002	117	--	7.4	21.0	2.7	8.1	18	K600	330
AUG												
01...	1000	17002	17002	15	636	8.0	23.0	2.7	8.2	6	240	300
29...	1200	17002	17002	3.8	672	7.9	24.5	2.9	6.7	11	K140	340

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT												
04...	77	--	39	--	11	--	1.8	--	36	9	.15	<.100
DEC												
01...	73	73	32	32	16	16	2.6	2.5	21	2	4.5	<.100
JAN												
19...	97	99	42	43	14	15	1.4	1.5	2	1	5.8	.130
MAR												
15...	74	72	34	33	9.1	9.1	1.7	1.1	220	20	8.3	<.100
APR												
23...	64		29	27	4.7	4.8	1.6	1.2	90	10	13	<.100
MAY												
14...	90	87	44	43	8.5	8.5	.7	.64	23	4	9.8	.160
JUN												
25...	84	76	37	34	10	10	2.0	1.3	132	118	11	<.100
AUG												
01...	72	66	37	33	12	11	1.6	1.4	21	4	1.3	<.100
29...	79	75	40	38	13	12	1.9	1.7	16	13	.54	<.100

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05580000 KICKAPOO CREEK AT WAYNESVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYILIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT 04...	<.002	.090	--	--	--	91	--	<1	--	34	--	<3
DEC 01...	<.005	.080	.030	320	<50	77	71	<1	<1	<50	<50	<3
JAN 19...	<.001	.030	.020	65	50	82	84	<1	<1	<50	<50	<3
MAR 15...	<.001	.170	.030	2900	89	97	58	<1	<.5	<50	68	<3
APR 23...	<.001	.160	.060	2700	<50	96	56	<1	<.5	<50	<50	<3
MAY 14...	.002	.030	<.010	310	<50	82	74	<1	<1	50	<50	3
JUN 25...	<.001	.130	.040	3000	<50	100	89	<2	<2	<50	<50	<3
AUG 01...	<.005	.050	.020	390	<50	92	78	<1	<.5	<50	<50	<3
29...	<.004	.070	.020	330	<50	100	100	<1	<.5	<50	<50	<3

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
OCT 04...	--	<5	--	<5	--	<5	--	770	--	<50	--	210
DEC 01...	<3	6	<5	<5	<5	<5	<5	660	<50	<50	<50	120
JAN 19...	<3	<5	<5	<5	<5	<5	<5	71	<50	<50	<50	180
MAR 15...	<3	9	<5	6	<5	5	<5	4500	<50	<50	<50	220
APR 23...	<3	5	<5	5	<5	<5	<5	3800	<50	<50	<50	160
MAY 14...	<3	<5	<5	<5	<5	<5	<5	680	280	<50	<50	60
JUN 25...	<3	16	<5	13	<5	6	<5	2900	<50	<100	<50	120
AUG 01...	<3	<5	<5	<5	<5	<5	<5	490	<50	<50	<50	110
29...	<3	<5	<5	<5	<5	<5	<5	450	<50	<50	<50	220

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
OCT 04...	--	<5	--	<3	--	140	--	<5	--	240	--
DEC 01...	80	<5	<5	<3	<3	140	140	<5	<5	<50	<50
JAN 19...	180	<5	12	<3	4	170	170	<5	<5	<50	<50
MAR 15...	72	13	<5	<3	<3	120	110	8	<5	<100	<50
APR 23...	9	6	<5	<3	<3	96	91	9	<5	<50	<50
MAY 14...	26	<5	--	5	<3	130	120	9	<5	<50	<50
JUN 25...	16	11	<5	7	<3	150	140	13	<5	<100	<100
AUG 01...	63	<5	<5	<3	<3	160	140	<5	<5	<50	<50
29...	110	<5	<5	<3	<3	170	160	<5	<5	<50	<50

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05580500 KICKAPOO CREEK NEAR LINCOLN, IL

LOCATION.--Lat 40°11'30", long 89°21'40", in NW¼ sec.18, T.20 N., R.2 W., Logan County, Hydrologic Unit 07130009, at bridge on county road, 2.4 mi upstream from small unnamed tributary, 3.0 mi north of Lincoln, and at mile 7.4.

DRAINAGE AREA.--306 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
04...	1200	17002	17002	6.3	580	7.6	19.0	--	7.6	31	460
DEC											
01...	1300	17002	17002	59	556	8.1	1.0	--	12.0	13	K500
JAN											
19...	1100	17002	17002	--	729	7.3	.0	1.0	13.0	3	K15
MAR											
15...	1300	17002	17002	125	697	7.5	3.0	1.7	12.7	9	K15
APR											
23...	1400	17002	17002	1420	475	7.9	7.0	94	10.6	34	900
MAY											
15...	1000	17002	17002	198	648	7.6	15.0	2.7	9.2	5	K20
JUN											
25...	1100	17002	17002	86	--	7.3	22.0	6.1	7.6	44	K1900
AUG											
01...	1400	17002	17002	48	632	8.0	25.0	3.1	8.8	11	200
29...	1000	17002	17002	12	636	7.8	24.5	3.7	5.0	16	480

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
04...	--	--	.00	52	--	38	--	14	--	1.7	--
DEC											
01...	290	89	.00	69	68	31	30	20	20	2.8	2.8
JAN											
19...	400	120	.00	95	93	42	41	16	17	1.5	1.5
MAR											
15...	350	130	.00	80	80	36	36	14	14	1.0	.93
APR											
23...	230	120	.00	60	54	28	24	5.4	5.5	2.3	1.7
MAY											
15...	400	180	.00	90	89	44	44	8.8	9.3	.8	.78
JUN											
25...	280	97	.00	69	65	32	29	8.8	8.3	3.9	2.2
AUG											
01...	320	83	.00	69	68	37	36	14	14	1.6	1.5
29...	330	76	.00	71	69	39	38	15	14	1.9	1.7

K Results based on colony count outside the acceptable range (non-ideal colony count).

05580500 KICKAPOO CREEK NEAR LINCOLN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT											
04...	206	57	42	18	<.10	<.100	<.002	.150	--	--	--
DEC											
01...	205	48	20	3	2.1	<.100	<.001	.080	.030	380	<50
JAN											
19...	286	66	2	1	4.8	<.100	<.001	.020	.010	63	53
MAR											
15...	222	56	14	1	10	.180	<.001	.030	.010	470	120
APR											
23...	117	47	265	30	11	<.100	<.001	.280	.090	5200	130
MAY											
15...	234	51	30	5	9.3	.130	.001	.040	<.010	360	<50
JUN											
25...	185	45	422	378	11	<.100	<.001	.410	.080	8900	<50
AUG											
01...	236	59	35	6	1.8	<.100	<.006	.050	.010	520	<50
29...	253	53	41	34	2.5	<.100	<.004	.096	.020	370	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT											
04...	100	--	<1	--	58	--	<3	--	<5	--	<5
DEC											
01...	96	86	<1	<1	59	58	<3	<3	<5	<5	<5
JAN											
19...	91	87	<1	<2	<50	<50	<3	<3	<5	<5	<5
MAR											
15...	73	69	<1	<.5	82	75	<3	<3	<5	<5	<5
APR											
23...	100	55	<1	<.5	<50	<50	<10	<3	5	<5	6
MAY											
15...	86	82	<2	<2	58	56	3	4	6	<5	5
JUN											
25...	200	90	<2	<1	58	<50	10	<3	30	6	22
AUG											
01...	100	100	<1	<.5	56	51	<3	<3	<5	<5	<5
29...	100	130	<1	<.5	61	56	<3	<3	<5	<5	<5

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05580500 KICKAPOO CREEK NEAR LINCOLN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT										
04...	--	<5	--	870	--	<50	--	350	--	<.1
DEC										
01...	<5	<5	<5	770	<50	<50	<50	120	90	<.1
JAN										
19...	<5	<5	<5	84	<50	<50	<50	150	150	<.1
MAR										
15...	<5	<5	<5	490	<50	<50	<50	94	82	<.1
APR										
23...	<5	9	<5	7000	160	<50	<50	260	12	<.1
MAY										
15...	6	9	<5	870	280	<50	<50	54	28	<.1
JUN										
25...	5	13	6	9000	<50	100	<50	350	<5	<.1
AUG										
01...	<5	<5	<5	620	<50	<50	<50	140	81	<.1
29...	<5	<5	<5	500	<50	<50	<50	200	110	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
04...	<5	--	<3	--	140	--	<5	--	180	--
DEC										
01...	<5	<5	<3	<3	140	140	<5	<5	--	--
JAN										
19...	8	6	<3	<3	170	170	<5	<5	<50	<50
MAR										
15...	6	5	<3	<3	130	130	<5	<5	<50	<50
APR										
23...	12	<5	<3	<3	92	86	14	<5	<100	100
MAY										
15...	<5	<5	4	4	130	130	8	7	<50	<50
JUN										
25...	40	6	5	<3	130	120	25	<5	<100	<50
AUG										
01...	<5	<5	<3	<3	160	160	<5	<5	<50	<50
29...	<5	<5	<3	<3	180	170	<5	<5	<50	<50

05580950 SUGAR CREEK NEAR BLOOMINGTON, IL

LOCATION.--Lat 40°28'18", long 89°01'46", in NE¼NW¼ sec.7, T.23 N., R.2 E., McLean County, Hydrologic Unit 07130009, on left bank at Bloomington-Normal Sanitary District sewage-treatment plant, 250 ft upstream from Interstate 74 highway bridge, 0.4 mi west of Bloomington, and at mile 48.8.

DRAINAGE AREA.--34.4 mi².

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR IL-82-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 725.11 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 52.8 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,600 ft³/s Dec. 3, 1982, gage height, 14.02 ft, from floodmark; minimum daily, 9.0 ft³/s Dec. 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,260 ft³/s May 20, gage goight, 10.52 ft; minimum daily, 16 ft³/s Oct. 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	26	29	22	22	33	45	67	64	28	22	19
2	18	66	30	22	42	33	42	65	57	30	22	19
3	19	28	31	22	51	32	84	74	51	31	21	19
4	23	26	39	22	41	34	68	68	49	29	23	20
5	17	27	38	22	33	32	57	68	45	28	21	20
6	17	26	37	23	29	30	49	60	41	29	21	19
7	17	27	32	23	26	30	45	58	39	28	22	20
8	16	26	31	22	30	31	59	57	213	28	22	69
9	17	26	31	22	32	30	71	55	86	28	22	27
10	16	40	38	22	81	30	50	55	49	29	21	90
11	17	28	254	21	62	29	47	77	45	77	21	36
12	60	25	70	21	210	28	71	57	44	25	20	22
13	28	25	50	21	305	31	49	58	42	24	21	21
14	26	25	60	20	76	29	44	53	41	24	21	21
15	24	24	37	20	56	799	48	52	41	45	20	20
16	24	26	36	20	59	300	47	50	38	23	20	20
17	25	25	29	21	52	154	46	50	37	23	21	19
18	25	25	27	20	55	118	42	50	37	23	35	20
19	30	31	26	18	49	654	40	65	36	23	20	21
20	35	64	25	18	43	418	39	1200	35	25	20	21
21	62	28	25	18	40	175	136	177	34	23	21	22
22	64	26	24	18	38	133	654	935	41	22	21	20
23	28	131	24	17	37	114	184	338	38	23	20	21
24	27	31	24	19	36	115	134	136	31	149	21	21
25	27	28	23	18	34	493	104	689	31	33	20	21
26	26	27	23	22	32	115	90	276	31	40	21	21
27	25	136	23	22	30	106	80	119	31	26	21	21
28	25	51	23	21	31	80	71	303	30	24	21	20
29	25	34	22	22	34	62	100	122	29	23	21	19
30	24	31	22	21	---	55	81	89	29	23	21	19
31	25	---	22	21	---	49	---	73	---	23	20	---
TOTAL	829	1139	1205	641	1666	4372	2677	5596	1415	1009	664	748
MEAN	26.7	38.6	38.9	20.7	57.4	141	89.2	181	47.2	32.5	21.4	24.9
MAX	64	136	254	23	305	799	654	1200	213	149	35	90
MIN	16	24	22	17	22	28	39	50	29	22	20	19

CAL YR 1983	TOTAL	18105	MEAN	49.6	MAX	458	MIN	16
WTR YR 1984	TOTAL	21981	MEAN	60.1	MAX	1200	MIN	16

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03581500 SUGAR CREEK NEAR HARTSBURG, IL

LOCATION.--Lat 40°13'20", long 89°24'12", in SE¼SW¼ sec.35, T.21 N., R.3 W., Logan County, Hydrologic Unit 07130009, at bridge on county road, 0.4 mi upstream from State Highway 121, 2.6 mi southeast of Hartsburg, 4.1 mi northwest of Lincoln, 6.6 mi downstream from West Fork, and at mile 15.4.

DRAINAGE AREA.--333 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 04...	1100	17002	17002	21	797	7.8	19.0	--	9.8	15	320
DEC 01...	1200	17002	17002	64	--	8.4	1.0	3.3	12.8	14	K1300
JAN 19...	1300	17002	17002	--	825	7.2	.0	.70	10.8	12	K40
MAR 15...	1100	17002	17002	133	804	7.4	3.0	1.7	13.0	11	K80
APR 23...	1200	17002	17002	2880	430	8.0	7.0	120	10.4	54	3200
MAY 15...	1200	17002	17002	254	675	7.8	16.0	2.7	9.6	5	K100
JUN 25...	1000	17002	17002	167	--	7.6	22.0	4.4	7.5	24	K910
AUG 01...	1200	17002	17002	51	723	8.1	24.0	2.4	8.6	10	K120
29...	0900	17002	17002	33	745	7.9	24.5	5.9	6.2	17	360

DATE	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 04...	--	64	--	30	--	58	--	6.0	--	74	64
DEC 01...	310	76	74	32	31	34	32	4.4	4.2	69	47
JAN 19...	380	88	87	39	39	45	45	4.2	4.2	80	64
MAR 15...	360	83	82	37	37	28	28	2.4	2.3	68	52
APR 23...	210	59	49	26	21	5.4	5.2	3.1	2.0	43	21
MAY 15...	410	89	91	44	44	13	14	1.2	1.2	55	29
JUN 25...	310	74	71	34	32	14	13	2.7	1.9	55	26
AUG 01...	330	73	75	34	34	34	34	3.8	3.7	74	46
29...	300	73	68	34	31	49	49	5.9	5.6	66	56

K Results based on colony count outside the acceptable range (non-ideal colony count).

05581500 SUGAR CREEK NEAR HARTSBURG, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
OCT										
04...	34	6	4.9	<.100	<.002	1.70	--	--	--	44
DEC										
01...	14	3	5.0	.490	.011	.650	.580	240	<50	67
JAN										
19...	3	1	5.7	2.40	.003	1.20	1.00	93	52	69
MAR										
15...	11	1	9.2	.100	<.001	.590	.550	220	90	63
APR										
23...	125	10	10	<.100	<.002	.430	.140	7800	120	200
MAY										
15...	36	4	11	.140	.003	.210	.170	300	<50	76
JUN										
25...	136	116	10	<.100	<.002	.350	.210	3500	<50	100
AUG										
01...	27	4	4.0	<.100	<.007	.630	.600	540	<50	82
29...	51	45	4.1	<.100	<.004	1.30	1.20	560	<50	83

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT										
04...	--	<1	--	240	--	<3	--	<5	--	<5
DEC										
01...	60	<1	<.5	150	150	<3	<3	<5	<5	<5
JAN										
19...	63	<2	<2	150	150	<3	<3	<5	<5	<5
MAR										
15...	60	<1	<.5	130	110	<3	<3	<5	<5	<5
APR										
23...	53	<1	<.5	<50	<50	<10	<3	14	<5	9
MAY										
15...	73	<1	<2	71	73	<3	3	<5	<5	<3
JUN										
25...	80	<1	<1	76	83	4	<3	23	11	11
AUG										
01...	77	<1	<.5	160	160	<3	<3	<5	<5	<5
29...	70	<1	<.5	230	220	<3	<3	5	<5	<5

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05581500 SUGAR CREEK NEAR HARTSBURG, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT										
04...	--	<5	--	760	--	<50	--	110	--	7
DEC										
01...	<5	<5	<5	430	<50	<50	<50	120	95	27
JAN										
19...	<5	<5	<5	85	<50	<50	<50	190	190	29
MAR										
15...	<5	<5	<5	230	<50	<50	<50	99	89	16
APR										
23...	<5	12	<5	10000	110	<50	<50	370	19	17
MAY										
15...	<5	5	<5	610	270	<50	<50	40	18	<5
JUN										
25...	13	5	<5	3700	<50	<100	<100	140	6	25
AUG										
01...	<5	<5	<5	670	<50	<50	<50	82	46	<5
29...	<5	<5	<5	890	<50	<50	<50	130	40	15

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT										
04...	--	<3	--	130	--	<5	--	<100	--	0
DEC										
01...	26	<3	<3	140	140	<5	<5	<50	<50	1
JAN										
19...	28	<3	3	170	160	<5	<5	<50	<50	1
MAR										
15...	22	<3	<3	140	130	<5	<5	110	<50	0
APR										
23...	<5	<3	<3	91	80	19	<5	<100	<50	0
MAY										
15...	<5	<3	5	130	130	<5	9	<50	<50	1
JUN										
25...	18	<3	7	140	130	10	9	<100	<100	1
AUG										
01...	<5	<3	<3	160	160	<5	<5	<50	<50	1
29...	15	<3	<3	170	150	<5	<5	<50	<50	1

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05582000 SALT CREEK NEAR GREENVIEW, IL

LOCATION.--Lat 40°08'01", long 89°44'08", in NE1/4NE1/4 sec.2, T.19 N., R.6 W., Mason County, Hydrologic Unit 07130009, near center of span on downstream side of bridge on State Highway 29, 3.3 mi downstream from Pike Creek, 3.5 mi north of Greenview, and at mile 4.9.

DRAINAGE AREA.--1,804 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1175: 1948(P). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 479.00 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 3, 1972, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except those for winter periods and those for period of no gage-height record, June 16 to July 16, which are poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--43 years, 1,297 ft³/s, 9.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,200 ft³/s May 19, 1943, gage height, 20.50 ft, from graph based on gage readings; minimum, 46 ft³/s Sept. 25, 26, Oct. 12-14, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 15	Unknown	8240	10.90	Apr. 23	1645	11400	12.95
Mar. 17	0530	7430	10.33	May 22	Unknown	8200	Unknown
Mar. 21	0630	11100	12.77	May 24	Unknown	8700	Unknown
Mar. 26	1015	9690	11.73	May 27	Unknown	*12700	*13.59

Minimum daily discharge, 110 ft³/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	142	504	580	370	1150	4340	3850	4800	660	340	137
2	130	170	467	540	641	1220	3870	3220	3900	640	311	129
3	122	227	456	520	1130	1300	3570	2990	3700	620	306	126
4	114	231	446	510	1800	1400	3960	2790	3600	600	301	128
5	130	179	462	500	2500	1220	4160	2530	3330	700	292	122
6	138	179	493	500	2100	1100	3810	2330	3050	640	292	121
7	118	245	530	520	1700	1000	3420	2200	2750	600	282	120
8	118	170	536	560	1500	940	3210	2090	2570	560	287	129
9	114	162	536	600	1300	870	3150	1870	3900	520	277	185
10	110	196	519	640	1120	800	3310	1750	4290	500	259	231
11	114	209	974	680	1000	850	3200	1500	2810	480	250	214
12	130	192	2410	720	1600	900	3040	1420	2460	470	240	253
13	138	196	2670	790	2500	1010	3020	1300	2250	460	222	177
14	146	183	2120	700	4500	1060	2770	1200	2030	450	192	175
15	154	175	1960	600	8000	1130	2600	1100	1890	450	213	173
16	146	175	1740	570	6600	4580	2580	1000	1830	525	209	149
17	139	162	1560	495	5500	7040	2550	1000	1600	446	209	141
18	138	166	1500	435	4700	5290	2420	1100	1400	400	227	132
19	134	166	1400	390	4000	4830	2240	900	1200	360	227	121
20	158	187	1300	350	3500	8770	2120	900	1100	340	222	124
21	192	236	1200	310	3000	10800	2160	1780	980	335	200	120
22	316	250	1100	280	2500	9680	6550	8000	900	340	196	138
23	472	395	1000	300	2100	7560	10800	6000	870	301	174	125
24	375	462	950	333	1750	6320	7910	8500	840	287	168	122
25	268	301	900	365	1550	7100	5080	7100	1800	277	161	122
26	222	365	840	410	1400	9430	4870	6000	1170	623	157	117
27	192	370	800	450	1250	8700	4220	12000	850	579	153	120
28	175	742	760	500	1100	7410	3660	9000	790	472	152	120
29	166	725	700	420	1100	6610	3350	6500	740	420	149	118
30	150	557	660	355	---	5600	5140	5600	690	375	145	117
31	146	---	620	280	---	4900	---	5000	---	355	141	---
TOTAL	5290	8115	32113	15193	71811	130570	117880	112520	64090	14785	6954	4306
MEAN	171	271	1036	490	2476	4212	3929	3630	2136	477	224	144
MAX	472	742	2670	790	8000	10800	10800	12000	4800	700	340	253
MIN	110	142	446	280	370	800	2120	900	690	277	141	117
CFSM	.09	.15	.57	.27	1.37	2.33	2.18	2.01	1.18	.26	.12	.08
IN.	.11	.17	.66	.31	1.48	2.69	2.43	2.32	1.32	.30	.14	.09

CAL YR 1983	TOTAL	618589	MEAN	1695	MAX	15100	MIN	110	CFSM	.94	IN.	12.76
WTR YR 1984	TOTAL	583635	MEAN	1595	MAX	12000	MIN	110	CFSM	.88	IN.	12.04

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05583000 SALT CREEK NEAR GREENVIEW, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site EI 02.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT 13...	1100	17002	17002	162	598	7.1	15.5	4.1	7.0	11	K140
DEC 01...	1130	17002	17002	546	602	6.5	1.0	4.1	14.4	10	1100
FEB 01...	1200	17002	17002	E370	692	--	1.0	3.2	12.0	11	K60
MAR 20...	1000	17002	17002	8740	398	7.9	3.0	84	12.2	100	2100
APR 10...	0900	17002	17002	3340	634	7.7	8.0	1.9	10.8	12	K630
MAY 02...	1000	17002	17002	3270	626	7.4	12.0	11	9.5	14	K320
JUN 12...	0900	17002	17002	2460	613	7.4	21.5	20	7.5	21	K800
JUL 10...	1200	17002	17002	509	600	8.2	25.0	5.0	9.1	14	340
AUG 20...	1100	17002	17002	213	680	8.1	21.0	4.3	8.8	16	K80

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 13...	320	68	.00	74	72	35	34	22	24	2.3	2.2
DEC 01...	310	98	.00	74	73	33	32	21	21	2.9	2.9
FEB 01...	330	110	.00	74	75	34	34	26	26	1.9	1.9
MAR 20...	200	--	--	64	47	30	21	7.6	6.9	3.9	1.9
APR 10...	330	--	--	77	75	36	35	9.3	9.6	1.5	1.2
MAY 02...	390	--	--	87	86	43	42	8.9	9.0	1.7	1.1
JUN 12...	310	--	--	73	71	33	32	10	9.8	2.6	1.5
JUL 10...	320	--	--	75	73	35	34	13	13	1.8	1.4
AUG 20...	310	--	--	74	71	34	33	25	25	2.6	2.4

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05582000 SALT CREEK NEAR GREENVIEW, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT											
13...	252	52	7	3	1.2	<.100	<.001	.250	.170	180	69
DEC											
01...	217	56	26	2	3.8	<.100	<.001	.220	.170	260	<50
FEB											
01...	230	55	7	0	4.4	.180	--	.210	.160	190	<50
MAR											
20...	--	--	990	100	8.9	.130	.001	1.10	.150	16000	170
APR											
10...	--	--	116	8	8.6	<.100	<.001	.150	.080	1100	<50
MAY											
02...	--	--	150	30	9.6	<.100	<.001	.170	.070	2200	<50
JUN											
12...	--	--	326	46	9.3	<.100	<.001	.210	.080	4900	<50
JUL											
10...	--	--	67	56	5.4	<.100	<.009	.150	.080	1300	<50
AUG											
20...	--	--	38	36	1.2	<.100	<.005	.250	.160	350	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT										
13...	63	58	<1	<.5	77	120	<3	<3	<5	<5
DEC										
01...	77	67	<1	<1	74	73	<3	<3	<5	<5
FEB										
01...	70	66	<1	<1	<50	<50	<3	<3	6	<5
MAR										
20...	300	50	2	<.5	<50	<50	8	24	19	<5
APR										
10...	79	62	<1	<.5	<50	<50	<3	<3	<5	<5
MAY										
02...	96	66	<1	<.5	<50	<50	<3	<3	<5	<5
JUN										
12...	100	81	<1	<.5	63	52	5	<3	11	<5
JUL										
10...	100	83	<1	<.5	60	53	<3	4	5	6
AUG										
20...	90	78	<1	<1	96	87	<3	<3	<5	<5

05582000 SALT CREEK NEAR GREENVIEW, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 13...	<5	<5	<5	<5	230	<50	<50	<50	210	170
DEC 01...	<5	<5	<5	<5	570	<50	<50	<50	120	60
FEB 01...	<5	<5	<5	<5	430	<50	<50	<50	110	78
MAR 20...	19	<5	28	<5	21000	69	120	<50	860	15
APR 10...	<5	<5	<5	<5	1800	<50	<50	<50	94	6
MAY 02...	<5	<5	<5	<5	2800	<50	<50	<50	120	6
JUN 12...	15	5	8	<5	5500	<50	<100	<50	230	<5
JUL 10...	<5	<5	<5	<5	1600	<50	<50	<50	100	12
AUG 20...	<5	<5	<5	<5	520	<50	<50	<50	190	70

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 13...	<5	<5	<3	<3	120	120	<5	<5	120	110
DEC 01...	<5	<5	<3	<3	130	130	<5	<5	<50	<50
FEB 01...	10	9	<3	<3	130	130	<5	<5	<50	<50
MAR 20...	42	<5	<3	<3	100	77	32	<5	140	<50
APR 10...	5	<5	<3	<3	120	120	7	<5	<50	<50
MAY 02...	<5	<5	<3	<3	120	110	6	<5	<100	<100
JUN 12...	24	<5	4	<3	130	130	14	<5	<50	<50
JUL 10...	7	8	<3	<3	140	140	<5	<5	<100	<50
AUG 20...	<5	<5	<3	<3	140	130	<5	<5	<50	<50

05583000 SANGAMON RIVER NEAR OAKFORD, IL
(National stream-quality accounting network station)

LOCATION.--Lat 40°07'25", long 89°59'05", in NW¼SE¼ sec.3, T.19 N., R.8 W., Mason County, Hydrologic Unit 07130008, on right bank at downstream side of bridge on State Highway 97, just upstream from Chicago & Illinois Midland Railway bridge, 0.8 mi downstream from Crane Creek, 1.8 mi northwest of Oakford, and at mile 25.7.

DRAINAGE AREA.--5,093 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1909 to October 1911, December 1911 to March 1912, August 1914 to June 1919, March 1921 to September 1922, October 1928 to December 1933, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 715: 1922(M). WSP 1175: 1912(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder and artificial control. Datum of gage is 452.88 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Jan. 1, 1934, nonrecording gage at site 2.4 mi upstream at datum 458.66 ft NGVD. Oct. 1, 1939, to May 14, 1940, nonrecording gage at present site at datum at NGVD.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--57 years (water years 1910-11, 1915-18, 1922, 1929-33, 1940-84), 3,361 ft³/s, 8.96 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s May 20, 1943, gage height, 25.63 ft; minimum, 45 ft³/s Jan. 21-31, 1918, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,600 ft³/s Mar. 23, gage height, 18.22 ft; minimum daily, 307 ft³/s Oct. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	517	3110	2100	800	4950	14800	12100	15900	1900	884	363
2	339	534	2760	2000	800	5180	13400	9860	15400	1930	920	363
3	335	522	2740	1900	1500	4830	12000	8510	13900	1750	839	358
4	326	587	2710	1800	2300	4520	11200	7360	11200	1730	773	354
5	321	537	2530	1750	3500	4580	11000	6530	9210	1870	724	354
6	321	528	2470	1700	5000	5020	10600	5880	8660	1940	699	358
7	316	530	2540	1700	5800	4830	10200	5230	6680	1720	687	368
8	312	514	2640	1800	6000	4950	9700	4900	5870	1610	652	378
9	307	504	2700	1900	5600	4990	8990	4420	6220	1560	640	402
10	307	530	2770	2000	5600	4830	8530	4240	7570	1520	617	527
11	307	543	3320	2200	4500	4560	8380	4160	5720	1540	594	554
12	335	596	5280	2400	4000	4400	7880	4130	4830	1510	577	682
13	358	565	7240	2650	5000	4070	7530	4370	4740	1430	560	679
14	412	566	7730	2400	10000	4000	7230	5420	4670	1290	534	622
15	433	574	8460	2000	15000	3610	6870	5420	4490	1270	527	605
16	417	570	8980	1600	15600	6290	6370	5020	4640	1390	474	552
17	412	516	9160	1400	16800	12000	6270	4310	3970	1480	453	493
18	411	511	9170	1100	17900	13200	6020	4000	3380	1270	448	473
19	413	527	8920	980	17900	14200	5300	3930	3150	1160	458	456
20	424	554	7600	900	17800	18000	5290	9820	3360	1090	463	436
21	469	624	6400	840	15800	21500	5300	16000	2750	1030	448	422
22	572	723	5800	800	13500	23400	10400	17800	2620	995	437	434
23	1060	957	5200	800	12400	24500	18600	19000	3110	953	427	422
24	1650	1070	4500	830	11000	23900	19700	17500	2720	915	422	419
25	1280	1110	4000	940	9910	23200	19900	15500	2740	879	417	473
26	912	1470	3500	1100	8650	22600	20500	19200	2630	995	412	430
27	752	1500	3100	1300	7380	21800	20400	20500	2350	1170	407	407
28	668	1830	2800	1400	6390	21200	16000	20700	2130	1030	402	397
29	606	2940	2600	1100	5310	20500	14100	21400	2090	939	397	392
30	568	3430	2400	900	---	18900	14600	20400	1970	876	373	385
31	538	---	2200	840	---	16700	---	17500	---	834	363	---
TOTAL	16235	26479	145330	47130	251140	371210	337060	325190	168670	41576	17028	13558
MEAN	524	883	4688	1520	8660	11970	11240	10490	5622	1341	549	452
MAX	1650	3430	9170	2650	17900	24500	20500	21400	15900	1940	920	682
MIN	307	504	2200	800	800	3610	5290	3930	1970	834	363	354
CFSM	.10	.17	.92	.30	1.70	2.35	2.21	2.06	1.10	.26	.11	.09
IN.	.12	.19	1.06	.34	1.83	2.71	2.46	2.38	1.23	.30	.12	.10

CAL YR 1983 TOTAL 1642757 MEAN 4501 MAX 22800 MIN 307 CFSM .88 IN. 12.00
WTR YR 1984 TOTAL 1760606 MEAN 4810 MAX 24500 MIN 307 CFSM .94 IN. 12.86

05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1980 to September 1981, June 1983 to current year.

REMARKS.--Suspended-sediment samples are collected every other day with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,540 mg/L June 9, 1984; minimum daily mean, 5 mg/L Dec. 30, 1980.
SEDIMENT LOADS: Maximum daily, 118,000 tons July 5, 1981; minimum daily, 5.3 tons Oct. 28, Nov. 28, 1980.

EXTREMES FOR CURRENT PERIOD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,540 mg/L June 9; minimum daily mean, 6 mg/L Jan. 21-24, 31, Feb. 1, 2.
SEDIMENT LOADS: Maximum daily, 91,400 tons May 23; minimum daily, 13 tons Jan. 22-24, Feb. 1, 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
14...	1000	81700	17002	417	550	8.2	9.0	--	10.7	20	90
NOV											
17...	1100	17002	17002	500	730	7.7	6.0	4.9	11.5	11	K10
17...	1105	81700	80010	500	750	7.8	6.0	5.4	11.8	--	--
17...	1205	81700	17002	500	--	--	--	--	--	13	60
JAN											
05...	1200	81700	17002	E1750	--	--	--	--	--	10	100
05...	1205	81700	80010	E1750	590	7.8	1.0	8.1	12.2	--	--
MAR											
08...	1300	81700	17002	4990	--	--	--	--	--	10	K10
08...	1305	81700	80010	4990	590	8.0	2.0	20	13.2	--	--
APR											
27...	1000	17002	17002	18800	459	7.3	15.0	5.2	8.4	23	90
27...	1200	81700	17002	18600	460	7.3	15.5	--	8.4	27	90
27...	1205	81700	80010	18600	460	7.3	15.5	90	8.4	--	--
JUN											
07...	1200	81700	17002	6520	565	8.0	22.0	--	8.0	18	200
29...	0940	81700	17003	2100	--	--	--	--	--	--	--
JUL											
19...	1200	81700	80010	1160	545	7.7	24.0	30	10.2	--	--
19...	1203	81700	17002	1160	--	--	--	--	--	16	260
AUG											
07...	1810	81700	17003	652	--	--	--	--	--	--	--
29...	1203	81700	17002	397	--	--	--	--	--	28	--
29...	1210	81700	80010	397	840	8.4	26.5	13	12.9	--	--

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)
OCT											
14...	--	330	90	.00	78	75	35	34	55	57	3.6
NOV											
17...	--	290	81	.00	67	67	30	30	58	60	4.3
17...	--	280	67	--	--	67	--	28	--	52	--
17...	--	--	--	.00	67	--	29	--	59	--	4.3
JAN											
05...	--	310	--	--	72	72	32	32	19	19	2.0
05...	--	300	92	--	--	70	--	30	--	18	--
MAR											
08...	--	--	--	.00	69	--	31	--	22	--	1.7
08...	--	290	100	--	--	68	--	30	--	20	--
APR											
27...	--	200	94	.00	51	47	23	21	7.6	7.6	2.6
27...	70	210	100	.00	51	48	23	21	7.8	7.9	2.6
27...	--	190	73	--	--	46	--	19	--	8.9	--
JUN											
07...	250	280	100	.00	70	66	31	29	14	13	2.4
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	260	45	--	--	60	--	26	--	26	--
19...	340	280	--	.00	67	64	31	29	21	22	2.6
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	.00	70	--	32	--	47	--	3.4
29...	--	290	37	--	--	66	--	31	--	45	--

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, TOTAL (MG/L AS F) (00951)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)
OCT											
14...	3.6	238	80	--	.4	--	--	--	--	28	11
NOV											
17...	4.3	210	82	69	.3	--	--	--	--	12	2
17...	3.9	216	81	73	--	.40	9.2	481	450	--	--
17...	--	--	--	--	--	--	--	--	--	12	2
JAN											
05...	2.0	--	--	--	--	--	--	--	--	--	--
05...	1.7	207	60	36	--	.20	9.4	412	350	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	63	6
08...	1.4	192	54	25	--	.20	8.6	382	320	--	--
APR											
27...	1.9	110	50	22	.3	--	--	--	--	77	67
27...	2.0	107	52	--	.3	--	--	--	--	199	178
27...	1.7	120	44	19	--	.20	7.2	329	220	--	--
JUN											
07...	1.7	182	35	--	.3	--	--	--	--	154	89
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	2.1	212	100	28	--	.20	7.8	448	380	--	--
19...	2.3	--	--	--	.3	--	--	--	--	88	12
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	45	33
29...	2.7	256	65	--	--	.40	5.1	417	--	--	--

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05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
OCT											
14...	.71	--	<.100	<.003	--	--	1.1	1.8	.430	.300	340
NOV											
17...	2.0	--	.210	.001	--	.79	1.0	3.0	.680	.540	170
17...	--	2.1	--	--	.320	--	.90	--	.640	.590	--
17...	--	--	--	--	--	--	--	--	--	--	210
JAN											
05...	--	--	--	--	--	--	--	--	--	--	250
05...	--	6.5	--	--	.340	--	.80	--	.210	.190	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	820
08...	--	7.5	--	--	.160	--	1.3	--	.170	.130	--
APR											
27...	7.1	--	<.100	<.001	--	--	1.4	8.5	.290	.100	4100
27...	7.0	--	<.100	<.001	--	--	1.5	8.5	.258	.156	4300
27...	--	8.8	--	--	<.010	--	1.2	--	.300	.090	--
JUN											
07...	8.9	--	.180	.008	--	.42	.60	9.5	.220	.130	3600
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	3.4	--	--	<.010	--	.80	--	.270	.170	--
19...	--	--	--	--	--	--	--	--	--	--	1400
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	690
29...	--	.21	--	--	.060	--	1.6	--	.330	.260	--

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)
OCT											
14...	140	3	--	64	57	<1	<.5	300	300	<3	<3
NOV											
17...	53	2	--	64	58	<1	<1.0	220	220	<3	<3
17...	<10	--	2	--	71	--	<.5	--	--	--	<1
17...	--	--	--	63	--	<1	--	230	--	<3	--
JAN											
05...	53	1	--	70	67	<2	<2.0	92	94	<3	<3
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	69	--	<1	--	51	--	7	--
08...	<10	--	1	--	70	--	<1.0	--	--	--	1
APR											
27...	<50	4	--	100	59	<1	<.5	73	67	<3	<3
27...	84	3	--	100	59	<1	<.5	72	67	<3	<3
27...	40	--	1	--	71	--	<1.0	--	--	--	<1
JUN											
07...	62	2	--	100	76	<2	<1.0	68	62	4	<3
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	<50	4	--	97	75	<1	<1.0	150	150	6	<3
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	87	--	<1	--	210	--	<3	--
29...	20	--	3	--	76	--	<.0	--	--	--	1

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05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
OCT											
14...	<5	<5	<5	<5	<5	6	430	89	<50	<50	250
NOV											
17...	<5	<5	<5	<5	<5	<5	410	<50	<50	<50	160
17...	--	<1	--	<3	--	3	--	14	--	1	--
17...	<5	--	<5	--	<5	--	440	--	<50	--	160
JAN											
05...	8	<5	<5	<5	<5	<5	470	<50	<50	<50	65
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	8	--	<5	--	11	--	1400	--	<50	--	76
08...	--	<1	--	<3	--	3	--	8	--	<1	--
APR											
27...	26	<5	5	<5	12	<5	5500	<50	<50	<50	180
27...	<5	<5	<5	<5	25	<5	5500	<50	<50	<50	160
27...	--	<1	--	<3	--	4	--	80	--	1	--
JUN											
07...	14	10	10	<5	9	5	4100	<50	<100	<50	190
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	11	<5	15	<5	5	<5	1700	<50	<100	<50	140
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	<5	--	<5	--	<5	--	690	--	<50	--	240
29...	--	<1	--	<3	--	2	--	5	--	2	--

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)
OCT										
14...	130	<.1	--	6	11	--	<3	<3	130	130
NOV										
17...	120	<.1	--	<5	<5	--	<3	<3	130	130
17...	120	--	<.1	--	2	<1	--	<1	--	120
17...	--	--	--	6	--	--	<3	--	130	--
JAN										
05...	39	<.1	--	9	6	--	<3	<3	120	130
05...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	<5	--	--	<3	--	120	--
08...	25	--	.5	--	3	1	--	<1	--	120
APR										
27...	<5	<.1	--	22	<5	--	<3	<3	110	98
27...	<5	.4	--	5	<5	--	<3	<3	110	99
27...	3	--	.1	--	4	1	--	<1	--	100
JUN										
07...	9	<.1	--	19	16	--	<3	3	140	130
29...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
19...	8	<.1	--	13	<5	--	9	<3	130	130
AUG										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	13	--	--	<3	--	140	--
29...	40	--	.2	--	2	<1	--	<1	--	120

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05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
14...	<5	<5	--	--	<.01	<5	2	35	39	96
NOV										
17...	<5	<5	<50	<50	<.01	<5	1	--	--	--
17...	--	<6	--	8	--	--	--	12	16	86
17...	<5	--	<100	--	<.01	<5	0	--	--	--
JAN										
05...	<5	<5	<100	<50	<.01	<5	0	--	--	--
05...	--	--	--	--	--	--	--	21	--	79
MAR										
08...	<5	--	110	--	<.01	<5	0	--	--	--
08...	--	<6	--	27	--	--	--	67	903	88
APR										
27...	9	<5	<50	<50	<.01	<5	0	--	--	--
27...	9	<5	<50	<50	<.01	<5	0	--	--	--
27...	--	<6	--	13	--	--	--	261	13100	81
JUN										
07...	15	8	<50	<50	<.01	<5	1	--	--	--
29...	--	--	--	--	--	--	--	94	534	98
JUL										
19...	--	--	--	--	--	--	--	98	307	98
19...	12	<5	<50	<50	<.01	<5	0	--	--	--
AUG										
07...	--	--	--	--	--	--	--	67	118	93
29...	<5	--	<50	--	<.01	<5	1	--	--	--
29...	--	7	--	20	--	--	--	93	100	98

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	354	18	17	517	43	60	3110	225	1910
2	329	24	22	534	33	48	2760	95	708
3	335	28	25	522	25	35	2740	74	547
4	326	26	23	587	27	43	2710	89	651
5	321	21	18	537	31	45	2530	88	601
6	321	29	25	528	35	50	2470	68	453
7	316	36	31	530	38	54	2540	52	357
8	312	42	35	514	33	46	2640	50	356
9	307	31	26	504	35	48	2700	50	364
10	307	29	24	530	19	27	2770	84	628
11	307	28	23	543	12	18	3320	246	2260
12	335	28	25	596	22	35	5280	146	1940
13	358	25	24	565	21	32	7240	250	4950
14	412	46	51	566	25	38	7730	205	4240
15	433	20	25	574	25	39	8460	218	5040
16	417	18	20	570	20	31	8980	214	5180
17	412	20	22	516	15	21	9160	185	4590
18	411	25	28	511	17	23	9170	208	5160
19	413	29	32	527	18	26	8920	93	2240
20	424	30	34	554	20	30	7600	97	1990
21	469	25	32	624	28	47	6400	94	1620
22	572	18	28	723	74	144	5800	82	1280
23	1060	234	706	957	150	374	5200	75	1050
24	1650	188	832	1070	174	501	4500	67	814
25	1280	250	842	1110	297	896	4000	61	659
26	912	109	268	1470	172	663	3500	53	501
27	752	90	183	1500	100	405	3100	44	368
28	668	98	177	1830	385	1970	2800	41	310
29	606	64	105	2940	325	2510	2600	36	253
30	568	38	58	3430	433	4030	2400	33	214
31	538	44	64	---	---	---	2200	30	178
TOTAL	16235	---	3825	26479	---	12289	145330	---	51412

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05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	2100	28	159	800	6	13	4950	73	976
2	2000	26	140	800	6	13	5180	77	1080
3	1900	24	123	1500	16	65	4830	72	939
4	1800	23	112	2300	31	193	4520	66	805
5	1750	21	99	3500	53	501	4580	70	866
6	1700	20	92	5000	72	972	5020	76	1030
7	1700	20	92	5800	83	1300	4830	74	965
8	1800	23	112	6000	82	1330	4950	72	962
9	1900	24	123	5600	79	1190	4990	73	984
10	2000	26	140	5000	72	972	4830	71	926
11	2200	30	178	4500	67	814	4560	67	825
12	2400	33	214	4000	61	659	4400	64	760
13	2650	37	265	5000	72	972	4070	60	659
14	2400	33	214	10000	119	3210	4000	60	648
15	2000	26	140	15000	198	8020	3610	53	517
16	1600	21	91	15600	211	8890	6290	297	6350
17	1400	15	57	16800	225	10200	12000	399	12400
18	1100	10	30	17900	267	12900	13200	297	10500
19	980	8	21	17900	267	12900	14200	181	6810
20	900	7	17	17800	254	12200	18000	242	11900
21	840	6	14	15800	162	6910	21500	296	17200
22	800	6	13	13500	176	6420	23400	332	21000
23	800	6	13	12400	167	5590	24500	348	23000
24	830	6	13	11000	135	4010	23900	329	21200
25	940	7	18	9910	116	3100	23200	327	20500
26	1100	10	30	8650	101	2360	22600	316	19300
27	1300	13	46	7380	90	1790	21800	275	16200
28	1400	15	57	6390	90	1550	21200	278	15900
29	1100	10	30	5310	77	1100	20500	282	15600
30	900	7	17	---	---	---	18900	255	13000
31	840	6	14	---	---	---	16700	228	10300
TOTAL	47130	---	2684	251140	---	110144	371210	---	254102
		APRIL			MAY			JUNE	
1	14800	183	7310	12100	607	19900	15900	176	7560
2	13400	155	5610	9860	457	12300	15400	187	7780
3	12000	130	4210	8510	387	8940	13900	212	7960
4	11200	116	3510	7360	165	3290	11200	177	5350
5	11000	109	3240	6530	267	4690	9210	168	4180
6	10600	105	3010	5880	132	1910	8660	246	5750
7	10200	98	2700	5230	115	1620	6680	2330	40700
8	9700	88	2300	4980	145	1950	5870	2660	40400
9	8990	68	1650	4420	115	1370	6220	3540	59500
10	8530	67	1540	4240	128	1470	7570	1340	27000
11	8390	64	1450	4160	105	1240	5720	504	8410
12	7880	75	1600	4130	93	1040	4830	250	3260
13	7530	83	1690	4370	157	1850	4740	216	2760
14	7230	80	1560	5420	1030	14900	4670	174	2190
15	6870	81	1500	5420	830	12100	4490	295	3650
16	6370	88	1510	5020	355	4740	4640	320	4080
17	6270	82	1390	4310	581	6830	3970	150	1610
18	6020	76	1240	4000	196	2120	3380	144	1310
19	5300	72	1030	3930	275	2920	3150	129	1100
20	5290	66	943	9820	867	28400	3360	128	1160
21	5300	64	916	16000	1450	61300	2750	126	936
22	10400	2050	72300	17800	1170	57300	2620	133	941
23	18600	1050	49200	19000	1780	91400	3110	163	1370
24	19700	845	44900	17500	948	45100	2720	126	925
25	19900	780	41900	15500	1840	77600	2740	245	1820
26	20500	630	34900	19200	1450	74400	2630	210	1490
27	20400	272	15000	20500	1100	61100	2350	203	1290
28	16000	244	10500	20700	640	35700	2130	123	707
29	14100	218	8300	21400	370	21400	2090	114	643
30	14600	1190	47400	20400	238	13100	1970	114	606
31	---	---	---	17500	208	9830	---	---	---
TOTAL	337060	---	374309	325190	---	681810	168670	---	246438

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05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	1900	106	544	884	69	165	363	40	39
2	1930	96	500	920	156	393	363	43	42
3	1750	163	763	839	80	181	358	41	40
4	1730	248	1150	773	60	125	354	50	48
5	1870	175	884	724	52	102	354	61	58
6	1940	156	817	699	52	98	358	58	56
7	1720	146	678	687	49	91	368	51	51
8	1610	98	322	652	51	90	378	49	50
9	1560	79	333	640	51	88	402	53	58
10	1520	79	324	617	42	70	527	54	77
11	1540	82	341	594	35	56	554	53	79
12	1510	98	400	577	39	61	682	86	158
13	1430	86	332	560	40	60	679	92	169
14	1290	79	272	534	35	50	622	79	133
15	1270	75	257	527	34	48	605	61	100
16	1390	120	486	474	31	40	552	55	82
17	1480	80	320	453	26	32	493	48	64
18	1270	77	264	448	27	33	473	45	57
19	1160	76	238	458	26	32	456	45	55
20	1090	73	215	463	26	33	436	39	46
21	1030	66	184	448	32	39	422	30	34
22	995	60	161	437	37	44	434	38	45
23	953	65	170	427	32	37	422	22	25
24	915	59	146	422	21	24	419	20	23
25	879	54	128	417	24	27	473	29	37
26	995	133	372	412	33	37	430	19	22
27	1170	151	467	407	41	45	407	20	22
28	1030	98	273	402	43	47	397	22	24
29	939	65	165	397	43	46	392	21	22
30	876	53	125	373	41	41	385	15	16
31	834	55	124	363	37	36	---	---	---
TOTAL	41576	---	11757	17028	---	2271	13558	---	1732
YEAR	1760606		1752773						

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05583915 SUGAR CREEK NEAR FREDERICK, IL

LOCATION.--Lat 40°05'49", long 90°24'16", in NE¼NW¼ sec.4, T.1 N., R.1 E., Schuyler County, Hydrologic Unit 07130003, at bridge on State Highway 100, 2.3 mi northeast of Frederick, 0.5 mi downstream from Harris Branch, and at mile 1.5.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972, 1974-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DH 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 24...	1300	17002	17002	671	7.0	11.0	7.1	7.4	--	480	--
DEC 15...	1200	17002	17002	642	7.5	1.0	8.3	13.5	8	400	--
FEB 29...	1100	17002	17002	740	7.3	2.0	1.0	13.2	3	K5	350
MAR 28...	1100	17002	17002	540	7.5	5.0	7.7	12.0	8	K360	270
APR 19...	1000	17002	17002	593	7.6	11.0	4.4	9.5	9	K50	310
MAY 31...	1100	17002	17002	634	7.5	15.0	1.0	8.2	5	480	330
JUN 28...	1000	17002	17002	632	7.4	23.0	12	6.9	20	K950	320
AUG 09...	1200	17002	17002	642	7.6	26.0	2.9	5.1	17	320	320
SEP 10...	1100	17002	17002	637	7.5	20.5	36	4.5	22	380	330

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT 24...	--	.00	82	--	38	--	17	--	4.2	--	222
DEC 15...	--	.00	79	--	34	--	19	--	3.6	--	196
FEB 29...	130	.00	83	82	35	35	16	16	2.4	2.4	221
MAR 28...	110	.00	63	63	28	28	11	11	2.6	2.4	167
APR 19...	95	.00	71	70	34	33	8.9	9.1	1.7	1.6	216
MAY 31...	110	.00	78	77	33	33	13	13	2.1	2.1	222
JUN 28...	83	.00	77	76	34	32	14	14	3.7	2.9	239
AUG 09...	81	.00	74	74	34	33	14	14	3.9	3.7	240
SEP 10...	74	.00	74	73	37	36	12	12	3.5	3.3	257

K Results based on colony count outside the acceptable range (non-ideal colony count).

05583915 SUGAR CREEK NEAR FREDERICK, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
OCT 24...	100	50	14	.93	.250	<.001	--	--	870	--	100
DEC 15...	120	35	10	3.7	<.100	<.001	--	--	450	--	94
FEB 29...	99	4	2	3.8	<.100	<.001	.040	<.010	160	61	86
MAR 28...	73	76	34	5.2	<.100	<.001	.100	.050	1100	<50	84
APR 19...	82	25	1	2.9	<.100	<.001	.100	.020	310	<50	79
MAY 31...	--	93	10	3.7	<.100	<.001	.100	.040	640	<50	100
JUN 28...	75	189	166	1.9	<.100	<.001	.200	.030	4600	<50	200
AUG 09...	79	103	15	<.10	<.100	<.003	.140	.020	2000	<50	200
SEP 10...	83	71	10	.15	.180	.002	.130	.020	1700	<50	200

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT 24...	--	<1	--	79	--	<3	--	<5	--	<5
DEC 15...	--	<1	--	<50	--	<3	--	6	--	<5
FEB 29...	84	<1	<1	<50	<50	<3	<3	5	<5	<5
MAR 28...	69	<1	<.5	<50	<50	<3	<3	<5	<5	<5
APR 19...	71	<1	<.5	<50	<50	<3	<3	<5	<5	<5
MAY 31...	92	<1	<.5	<50	<50	<3	<3	<5	<5	<5
JUN 28...	120	<1	<1	69	63	5	<3	7	<5	13
AUG 09...	130	<1	<.5	94	92	<3	<3	<5	<5	<5
SEP 10...	120	<1	<.5	<50	<50	<3	<3	<5	<5	<5

05583915 SUGAR CREEK NEAR FREDERICK, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT										
24...	--	13	--	1400	--	<50	--	200	--	<.1
DEC										
15...	--	<5	--	850	--	<50	--	170	--	<.1
FEB										
29...	<5	<5	<5	250	<50	<50	<50	220	210	<.1
MAR										
28...	<5	<5	<5	1600	<50	<50	<50	97	44	<.1
APR										
19...	<5	<5	<5	750	<50	<50	<50	160	130	<.1
MAY										
31...	<5	<5	<5	860	<50	<50	<50	160	100	<.1
JUN										
28...	6	6	<5	5300	<50	<100	<50	480	300	<.1
AUG										
09...	5	<5	<5	2800	<50	<50	<50	590	330	<.1
SEP										
10...	<5	<5	<5	2600	<50	<50	<50	560	330	<.1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
24...	15	--	<3	--	200	--	<5	--	130	--
DEC										
15...	7	--	<3	--	190	--	<5	--	<100	--
FEB										
29...	<5	<5	<3	<3	190	190	<5	<5	<100	<100
MAR										
28...	<5	<5	<3	<3	150	150	<5	<5	<50	<50
APR										
19...	<5	<5	<3	<3	160	160	<5	<5	<100	<100
MAY										
31...	<5	<5	<3	<3	180	180	<5	<5	<50	<50
JUN										
28...	13	<5	<3	<3	210	200	10	<5	<100	<50
AUG										
09...	<5	<5	<3	<3	210	210	<5	<5	<100	<50
SEP										
10...	12	<5	<3	<3	200	200	<5	<5	<50	<50

05584500 LA MOINE RIVER AT COLMAR, IL

LOCATION.--Lat 40°19'45", long 90°53'55", in SE¼SW¼ sec.18, T.4 N., R.4 W., McDonough County, Hydrologic Unit 07130010, on right bank at downstream side of bridge on State Highway 61, 0.2 mi downstream from Burlington Northern Railroad bridge, 1 mi southwest of Colmar, 1.8 mi upstream from Troublesome Creek, and at mile 61.8.

DRAINAGE AREA.--655 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 491.53 ft National Geodetic Vertical Datum of 1929. Prior to July 13, 1945, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except those for winter periods and those for period of no gage-height record, Dec. 24 to Jan. 24, which are poor.

AVERAGE DISCHARGE.--40 years, 446 ft³/s, 9.25 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s Sept. 25, 1970, gage height, 25.14 ft; maximum gage height, 27.03 ft Jan. 3, 1965 (ice jam); no flow part of each day Dec. 8, 9, 12, 13, 17, 21, 1955, due to temporary dam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 20	--	3300	18.40	May 4	1145	3170	18.13
Apr. 5	1000	3350	18.43	May 20	1730	5200	20.41
May 1	1130	3430	18.56	June 9	1815	*7230	*21.67

Minimum daily discharge, 3.1 ft³/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.4	207	128	195	190	408	1810	463	242	97	15
2	12	18	159	132	185	182	311	1090	441	219	83	12
3	11	83	162	136	198	180	274	826	398	200	74	12
4	9.9	106	209	142	218	205	304	1470	361	187	67	11
5	9.4	46	342	145	242	230	2000	1070	348	184	60	9.7
6	10	21	449	155	222	245	1500	928	409	183	55	9.7
7	9.6	13	342	160	202	197	1150	863	2080	168	50	10
8	7.6	8.5	267	152	185	176	900	732	4110	145	46	14
9	4.7	7.3	267	146	170	178	800	62[illegible]	6540	132	42	18
10	3.2	231	220	135	258	164	730	556	6090	127	39	29
11	3.1	592	1600	125	371	145	650	516	3290	128	35	163
12	8.4	293	1450	118	700	148	700	514	1390	221	31	102
13	14	132	1250	111	1150	149	600	1220	790	147	29	51
14	16	82	941	105	760	191	700	725	570	111	25	41
15	11	63	786	99	440	2000	650	486	480	1400	21	45
16	10	52	513	93	460	1700	590	416	450	1160	21	29
17	10	45	331	87	500	1500	438	379	410	310	20	21
18	11	41	215	80	600	1450	527	356	375	186	31	17
19	10	39	210	84	2000	1400	462	342	345	142	56	15
20	10	38	188	79	1050	2500	422	3650	322	120	55	13
21	26	39	175	75	730	1800	451	3810	297	115	42	11
22	171	41	165	74	530	1150	771	2950	282	106	31	10
23	182	476	158	77	435	1200	2300	2210	290	91	23	17
24	62	823	150	84	357	1600	1420	1600	703	80	21	32
25	26	423	142	82	300	2000	1060	1260	844	74	18	24
26	14	212	138	93	265	1800	955	846	881	965	16	34
27	9.1	246	132	125	230	1500	777	726	419	1560	15	28
28	5.0	596	130	175	208	1200	626	702	363	422	15	22
29	4.2	664	128	250	200	900	695	731	298	208	15	16
30	3.7	361	130	230	---	700	1070	603	333	144	15	13
31	5.8	---	128	208	---	620	---	532	---	114	15	---
TOTAL	700.7	5796.2	11684	3885	13361	27600	24241	34543	34392	9591	1164	844.4
MEAN	22.6	193	377	125	461	890	808	1114	1146	309	37.5	28.1
MAX	182	823	1600	250	2000	2500	2300	3810	6540	1560	97	163
MIN	3.1	4.4	128	74	170	145	274	342	282	74	15	9.7
CFSM	.03	.29	.58	.19	.70	1.36	1.23	1.70	1.75	.47	.06	.04
IN.	.04	.33	.66	.22	.76	1.57	1.38	1.96	1.95	.54	.07	.05

CAL YR 1983 TOTAL 167735.5 MEAN 460 MAX 11200 MIN 3.1 CFSM .70 IN. 9.53
WTR YR 1984 TOTAL 167802.3 MEAN 458 MAX 6540 MIN 3.1 CFSM .70 IN. 9.53

05584500 LA MOINE RIVER AT COLMAR, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML.) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
OCT 19...	1100	17002	17002	9.3	680	7.2	12.0	--	8.0	34	K300	--
DEC 13...	1100	17002	17002	1250	341	7.0	2.0	7.9	12.4	32	370	--
MAR 06...	1100	.7002	17002	254	578	7.2	1.0	2.7	13.3	15	K5	260
APR 05...	1000	17002	17002	3350	270	6.5	11.0	22	11.8	71	K1800	120
MAY 01...	1200	17002	17002	3420	277	6.9	12.0	21	7.8	120	K13000	200
JUN 11...	1000	17002	17002	3320	307	6.8	22.0	94	5.4	38	K1700	130
JUL 09...	1100	17002	17002	133	520	8.1	24.0	4.1	5.6	12	360	--
AUG 14...	1100	17002	17002	26	519	7.9	24.0	4.0	7.8	21	160	240
SEP 17...	1000	17002	17002	22	500	7.3	15.0	8.2	8.0	20	K2000	220

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT 19...	--	.00	64	--	25	--	48	--	4.4	--	185
DEC 13...	--	.00	37	--	14	--	11	--	3.6	--	65
MAR 06...	100	.00	63	63	26	26	18	17	1.9	1.7	164
APR 05...	--	.00	36	28	15	11	5.9	5.9	3.7	2.3	<10
MAY 01...	13	.00	59	48	27	20	6.2	5.9	5.0	2.6	190
JUN 11...	110	.00	35	32	14	12	6.7	6.3	4.7	3.5	21
JUL 09...	--	.00	58	--	26	--	14	--	2.1	--	172
AUG 14...	43	.00	54	53	26	26	20	21	3.1	2.9	197
SEP 17...	58	.00	56	54	21	20	25	24	5.0	4.6	160

K Results based on colony count outside the acceptable range (non-ideal colony count).

05584500 LA MOINE RIVER AT COLMAR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)
OCT 19...	82	46	9	<.10	<.100	<.001	--	.80	--	.110	--
DEC 13...	40	215	20	5.1	.190	<.001	1.5	1.7	6.8	.430	--
MAR 06...	67	20	3	5.5	<.100	<.001	--	.50	6.0	.070	.030
APR 05...	30	655	50	4.0	.130	<.001	3.2	3.3	7.3	.780	.130
MAY 01...	36	550	100	4.8	.190	<.001	4.7	4.9	9.7	.810	.130
JUN 11...	32	260	40	5.5	<.100	<.001	--	1.7	7.2	.410	.090
JUL 09...	39	99	88	8.2	<.100	<.007	--	.80	9.0	.160	.070
AUG 14...	48	35	13	<.10	<.100	<.004	--	.70	--	.130	.020
SEP 17...	52	77	13	.57	<.100	<.001	--	1.2	1.8	.180	.050

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
OCT 19...	530	--	100	--	<1	--	150	--	<3	--	6
DEC 13...	2900	--	100	--	<1	--	<50	--	3	--	9
MAR 06...	270	88	84	79	<1	<.5	<50	<50	<3	<3	<5
APR 05...	12000	370	300	62	<1	<.5	<50	<50	5	<3	18
MAY 01...	19000	240	400	72	<2	<.5	51	<50	<3	<3	24
JUN 11...	8100	<50	200	92	<2	<.5	59	<50	9	6	11
JUL 09...	2400	--	200	--	<1	--	<50	--	5	--	14
AUG 14...	400	<50	100	120	<1	<.5	95	91	<3	<3	8
SEP 17...	1100	<50	100	120	<2	<1	82	76	<3	<3	<5

05584500 LA MOINE RIVER AT COLMAR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 19...	--	<5	--	<5	--	1400	--	<50	--	790	--
DEC 13...	--	<5	--	7	--	4500	--	<50	--	380	--
MAR 06...	<5	<5	<5	<5	<5	530	<50	<50	<50	130	120
APR 05...	<5	17	<5	24	<5	17000	400	<100	<50	710	53
MAY 01...	<5	14	<5	29	<5	25000	260	<100	<50	840	26
JUN 11...	10	17	13	13	<5	9700	<50	120	<100	330	15
JUL 09...	--	9	--	<5	--	2900	--	<50	--	190	--
AUG 14...	11	<5	<5	<5	<5	1000	150	<50	<50	460	300
SEP 17...	<5	<5	<5	<5	<5	1900	<50	<50	<50	490	360

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 19...	<.1	10	--	<3	--	200	--	<5	--	130	--
DEC 13...	<.1	12	--	<3	--	110	--	9	--	<100	--
MAR 06...	<.1	<5	<5	<3	<3	160	160	<5	<5	<100	<100
APR 05...	<.1	27	<5	<3	<3	100	78	33	<5	<100	<50
MAY 01...	<.1	30	<5	<3	<3	120	81	46	<5	120	<50
JUN 11...	<.1	29	14	<3	7	110	100	21	9	<100	<50
JUL 09...	<.1	18	--	<3	--	180	--	8	--	<50	--
AUG 14...	<.1	8	12	<3	5	190	190	<5	<5	<100	110
SEP 17...	<.1	<5	<5	<3	<3	180	170	<5	<5	<50	<50

05585000 LA MOINE RIVER AT RIPLEY, IL

LOCATION.--Lat 40°01'31", long 90°37'55", in SW¼NE¼ sec.33, T.1 N., R.2 W., Brown County, Hydrologic Unit 07130010, on right bank 600 ft downstream from bridge on U.S. Highway 24, 0.2 mi east of Ripley, 2 mi upstream from Town Branch, and at mile 12.3.

DRAINAGE AREA.--1,293 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1921 to current year. Prior to October 1931 published as Crooked Creek at Ripley.

REVISED RECORDS.--WSP 975: 1936. WSP 1208: 1925, 1929, 1933. WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 431.1 ft National Geodetic Vertical Datum of 1929. Prior to July 28, 1926, nonrecording gage at site 200 ft upstream at datum 0.02 ft higher. July 28, 1926, to Jan. 11, 1935, nonrecording gage at present site and datum. National Weather Service gage-height telemeter at station.

REMARKS.--Water-discharge records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--63 years, 807 ft³/s, 8.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,100 ft³/s Sept. 27, 1970, gage height, 28.42 ft; minimum, 3.9 ft³/s Oct. 21, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 19	0630	5140	19.01	Apr. 22	2345	4900	18.59
Mar. 16	1600	5700	20.00	May 20	2145	*17000	*26.27
Mar. 20	0400	5860	20.30	June 12	2300	5700	20.00
Mar. 25	1800	5470	19.60				

Minimum daily discharge, 15 ft³/s Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	26	519	260	500	396	1070	4110	976	494	228	54
2	31	27	328	260	490	389	976	4230	859	386	194	53
3	26	30	254	270	450	387	1120	3500	763	346	171	53
4	23	31	281	280	460	383	2050	4070	661	326	154	51
5	22	135	378	280	450	417	3840	4310	593	307	142	50
6	21	146	639	290	500	427	4170	3470	510	307	134	48
7	19	94	614	300	450	421	3770	2000	806	307	124	48
8	18	68	463	315	400	353	1900	1480	2710	298	116	50
9	17	53	368	290	406	293	1490	1200	4900	252	108	53
10	15	73	496	275	602	318	1480	948	4740	235	101	146
11	15	348	2060	250	865	290	1440	841	4850	235	95	2270
12	19	726	4070	240	1280	263	1260	825	5340	217	90	698
13	18	417	3650	230	2280	263	1390	2470	5120	279	85	336
14	17	199	2510	200	2340	281	1290	3350	1760	270	82	312
15	17	145	1500	190	1780	837	1320	1730	995	1760	78	311
16	27	110	980	190	1420	5000	1290	927	949	2240	74	188
17	34	84	573	180	1620	5240	1170	745	893	1630	72	145
18	26	73	338	170	2660	4540	998	637	743	571	135	111
19	24	66	350	150	5130	4600	874	677	650	324	126	80
20	23	62	330	130	4070	5700	753	10600	600	247	122	70
21	30	59	315	120	2240	5360	1030	12800	531	210	118	61
22	75	85	300	110	1390	5020	4040	8240	496	189	105	61
23	148	463	290	100	1020	4540	4840	7410	474	179	89	61
24	320	1420	280	105	810	3580	4760	6680	649	161	75	61
25	180	1580	270	110	665	5240	4710	5970	997	143	67	97
26	101	590	260	120	544	5410	3220	4800	1180	904	64	100
27	68	409	250	140	467	5190	1880	2520	1160	3650	63	80
28	51	1660	250	190	433	4350	1360	1890	687	2630	52	80
29	41	1830	250	250	391	3330	1180	1630	552	837	43	77
30	35	1050	250	300	---	3110	3160	1410	494	409	43	79
31	29	---	260	450	---	1360	---	998	---	288	35	---
TOTAL	1522	12059	23676	6745	36113	77288	63831	106468	46638	20631	3185	5884
MEAN	49.1	402	764	218	1245	2493	2128	3434	1555	666	103	196
MAX	320	1830	4070	450	5130	5700	4840	12800	5340	3650	228	2270
MIN	15	26	250	100	391	263	753	637	474	143	35	48
CFSM	.04	.31	.59	.17	.96	1.93	1.65	2.66	1.20	.52	.08	.15
IN.	.04	.35	.68	.19	1.04	2.22	1.84	3.06	1.34	.59	.09	.17

CAL YR 1983 TOTAL 336280 MEAN 921 MAX 16000 MIN 10 CFSM .71 IN. 9.67
WTR YR 1984 TOTAL 404040 MEAN 1104 MAX 12800 MIN 15 CFSM .85 IN. 11.62

BEST COPY AVAILABLE

05585000 LA MOINE RIVER AT RIPLEY, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 19...	1300	17002	17002	24	655	7.0	12.0	--	7.8	18	K80	260
DEC 15...	1000	17002	17002	1520	411	7.0	2.0	6.9	12.2	24	K1900	160
MAR 06...	1200	17002	17002	E435	602	7.8	2.0	2.5	12.7	13	K10	290
28...	1000	17002	17002	4400	400	8.4	6.0	23	11.8	24	K50	180
APR 19...	1100	17002	17002	E913	525	7.3	11.0	5.1	9.6	10	K80	250
MAY 31...	0900	17002	17002	1310	517	7.2	14.0	2.8	8.7	21	K750	250
JUN 28...	0900	17002	17002	729	332	6.9	22.5	180	6.7	57	K1200	140
AUG 09...	1000	17002	17002	106	542	7.8	26.0	2.8	7.1	21	K130	260
SEP 10...	0930	17002	17002	44	563	7.4	20.5	28	5.6	20	260	270

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 19...	51	.00	65	65	23	23	28	26	3.4	3.2	207	44
DEC 15...	79	.00	46	39	18	15	12	11	3.5	2.9	80	60
MAR 06...	120	.00	68	68	27	28	18	18	2.2	2.1	164	89
28...	97	.00	46	44	19	17	9.4	9.3	3.3	2.6	83	50
APR 19...	96	.00	59	59	25	25	10	10	1.6	1.4	155	66
MAY 31...	100	.00	60	59	24	24	11	11	1.9	1.8	146	--
JUN 28...	79	.00	38	34	16	13	7.3	6.6	5.4	3.8	60	35
AUG 09...	46	.00	66	65	24	23	15	15	3.6	3.4	212	44
SEP 10...	25	.00	71	67	26	24	15	15	2.9	2.6	242	41

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05585000 LA MOINE RIVER AT RIPLEY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	FLUORIDE, TOTAL (MG/L AS F) (00951)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
OCT 19...	.3	226	24	<.10	<.100	<.001	--	1.0	--	.150	.010	1000
DEC 15...	.1	170	20	5.8	.960	<.001	.44	1.4	7.2	.310	.090	2100
MAR 06...	.2	26	4	5.0	<.100	<.001	--	.60	5.6	.090	.020	370
28...	.2	326	96	6.3	<.100	<.003	--	1.5	7.8	.330	.130	5000
APR 19...	.2	92	7	5.5	<.100	<.001	--	.80	6.3	.050	.020	960
MAY 31...	.2	222	26	6.7	<.100	<.001	--	1.0	7.7	.220	.070	960
JUN 28...	.2	447	392	5.6	<.100	<.001	--	2.1	7.7	.670	.100	11000
AUG 09...	.2	87	18	.89	<.100	<.004	--	1.4	2.3	.180	.020	1000
SEP 10...	.2	83	13	<.10	.120	.001	.88	1.0	--	.160	.010	1100

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT 19...	64	1	100	110	<1	<.5	88	94	<3	<3	<5	<5
DEC 15...	78	2	100	71	<1	<.5	<50	<50	<3	<3	17	<5
MAR 06...	73	1	84	77	<1	<.5	<50	<50	3	<3	<5	6
28...	140	4	200	71	<1	<.5	<50	<50	<3	<3	8	<5
APR 19...	<50	2	100	81	<1	<.5	<50	<50	<3	<3	<5	<5
MAY 31...	<50	4	100	94	<1	<.5	<50	<50	<3	<3	<5	<5
JUN 28...	<50	6	300	84	<2	<1	55	<50	13	3	22	5
AUG 09...	<50	2	200	130	<1	<.5	68	78	<3	<3	13	<5
SEP 10...	<50	2	200	140	<1	<.5	<50	<50	<3	<3	<5	<5

05585000 LA MOINE RIVER AT RIPLEY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AF HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT												
19...	<5	<5	<5	<5	1700	<50	<50	<50	840	570	<.1	<5
DEC												
15...	<5	<5	5	<5	3500	<50	<50	<50	290	100	<.1	16
MAR												
06...	<5	<5	<5	<5	710	<50	<100	<50	110	86	<.1	<5
28...	7	<5	15	<5	6800	64	<50	<50	260	24	<.1	11
APR												
19...	<5	<5	<5	<5	1500	<50	<50	<50	130	48	<.1	<5
MAY												
31...	<5	<5	<5	<5	1800	<50	<50	<50	210	44	<.1	<5
JUN												
28...	23	9	15	<5	14000	63	190	<100	610	11	<.1	39
AUG												
09...	<5	<5	7	<5	1400	<50	<50	<50	290	26	<.1	24
SEP												
10...	5	<5	<5	<5	1900	<50	<50	<50	850	560	<.1	10

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT												
19...	<5	<3	<3	160	160	<5	<5	<100	110	<.01	<5	1
DEC												
15...	<5	<3	<3	130	110	5	<5	<50	<50	<.01	<5	0
MAR												
06...	<5	<3	<3	170	170	<5	<5	<100	<50	<.01	<5	0
28...	<5	<3	<3	130	120	11	<5	<50	<50	<.01	<5	--
APR												
19...	<5	<3	<3	150	150	<5	<5	<50	<50	<.01	<5	1
MAY												
31...	<5	<3	<3	150	150	<5	<5	<50	<50	<.01	<5	1
JUN												
28...	10	4	<3	120	100	30	7	110	<100	<.01	<5	1
AUG												
09...	<5	<3	<3	190	190	<5	<5	150	<100	<.01	<5	0
SEP												
10...	12	<3	<3	200	190	<5	<5	<50	<50	<.01	<5	1

05585275 INDIAN CREEK AT ARENZVILLE, IL

LOCATION.--Lat 39°52'40", long 90°22'38", in SW¼SE¼ sec.31, T.17 N., R.11 W., Cass County, Hydrologic Unit 07130011, at bridge on county road at the western edge of Arenzville, 3.0 mi upstream from Prairie Creek, 3.6 mi downstream from Little Indian Creek, and at mile 11.1.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
NOV												
03...	1300	17002	17002	--	479	7.0	9.5	7.3	7.0	33	K1800	--
DEC												
27...	1200	17002	17002	--	609	7.2	.0	2.0	7.5	11	120	--
MAR												
05...	1300	17002	17002	82	710	7.6	3.0	7.3	14.2	13	K40	370
APR												
04...	1200	17002	17002	630	580	7.8	6.0	19	11.0	19	3000	300
MAY												
01...	0900	17002	17002	600	611	7.5	10.0	15	9.6	29	K1200	390
JUN												
05...	1200	17002	17002	370	764	7.6	18.5	1.1	9.0	14	3600	350
28...	1200	17002	17002	34	880	8.0	21.0	3.4	7.2	17	K1700	360
JUL												
26...	1200	17002	17002	27	565	7.6	23.0	54	6.9	44	K400	270
AUG												
14...	1200	17002	17002	3.8	604	8.1	23.0	1.9	8.2	14	200	300

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV												
03...	65	--	37	--	15	--	5.3	--	48	14	--	<.100
DEC												
27...	93	--	22	--	20	--	3.9	--	6	0	2.6	.110
MAR												
05...	81	80	41	41	10	10	1.9	1.7	83	5	7.4	.260
APR												
04...	74	66	37	33	7.2	6.8	3.0	2.0	344	26	9.4	<.100
MAY												
01...	89	85	45	43	7.2	6.9	2.6	1.2	550	65	12	<.100
JUN												
05...	79	77	40	38	9.3	9.2	2.2	1.3	262	24	12	<.100
28...	80	77	41	40	9.9	9.6	1.4	.98	97	82	12	<.100
JUL												
26...	66	57	38	32	9.5	9.0	4.2	2.4	652	54	5.4	.110
AUG												
14...	57	56	41	40	13	13	2.1	2.0	34	10	.91	<.100

K Results based on colony count outside the acceptable range (non-ideal colony count).

05585275 INDIAN CREEK AT ARENZVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
NOV 03...	<.001	--	--	850	--	100	--	<1	--	59	--	<3
DEC 27...	<.001	--	--	150	--	100	--	<2	--	<50	--	<3
MAR 05...	.001	.130	.040	870	110	85	74	<1	<.5	<50	<50	<3
APR 04...	<.001	.470	.100	5800	<50	200	67	<1	<.5	<50	<50	<3
MAY 01...	<.001	.660	.080	7100	<50	200	77	<1	<.5	<50	<50	<3
JUN 05...	.001	.240	.070	4600	<50	100	92	<1	<1	<50	<50	4
28...	<.004	.170	.070	2500	<50	100	95	<1	<.5	<50	<50	<3
JUL 26...	.002	.440	.100	11000	<50	200	80	<2	<.5	61	<50	13
AUG 14...	<.006	.090	.030	660	<50	100	95	<1	<.5	68	65	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
NOV 03...	--	<5	--	5	--	6	--	1300	--	<50	--	630
DEC 27...	--	9	--	<5	--	<5	--	310	--	<50	--	230
MAR 05...	<3	6	6	<5	<5	<5	<5	1200	<50	<50	<50	130
APR 04...	<3	6	<5	7	<5	9	<5	8500	<50	<50	<50	500
MAY 01...	<3	17	<5	7	<5	14	<5	10000	<50	<50	<50	440
JUN 05...	3	11	7	12	6	7	<5	5400	<50	<50	<50	220
28...	4	<5	<5	<5	<5	5	<5	2700	<50	<50	<100	130
JUL 26...	<3	28	6	20	5	19	<5	16000	<50	110	<50	710
AUG 14...	<3	<5	<5	<5	<5	<5	<5	890	<50	<50	<50	250

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 03...	--	<.1	19	--	<3	--	130	--	<5	--	<50	--
DEC 27...	--	<.1	18	--	<3	--	200	--	<5	--	120	--
MAR 05...	63	<.1	<5	<5	<3	<3	130	130	<5	<5	<100	<100
APR 04...	27	<.1	7	<5	<3	<3	130	110	16	<5	<50	<50
MAY 01...	15	<.1	10	<5	<3	<3	140	120	20	<5	<100	<50
JUN 05...	15	<.1	18	9	<3	<3	160	160	17	7	<50	<50
28...	21	<.1	<5	5	<3	<3	160	160	<5	<5	<100	<50
JUL 26...	150	<.1	45	<5	4	<3	140	120	31	6	140	<100
AUG 14...	83	<.1	15	17	<3	<3	150	140	<5	<5	<100	<100

05585500 ILLINOIS RIVER AT MEREDOSIA, IL

LOCATION.--Lat 39°49'24", long 90°34'05", in SE¼ sec.21, T.16 N., R.13 W., Morgan County, Hydrologic Unit 07130011, on left bank in the crib house of Central Illinois Public Service Company in Meredosia, 0.6 mi downstream from bridge on State Highway 104, 3.9 mi upstream from McKee Creek, and at mile 71.3.

DRAINAGE AREA.--26,028 mi².

PERIOD OF RECORD.--October 1938 to current year. October 1933 to September 1938 in reports of Mississippi River Commission.

REVISED RECORDS.--WSP 895: 1939. WDR IL-75-1: Drainage area. WDR IL-83-2: 1979(M).

GAGE.--Water-stage recorder. Datum of gage is 418.00 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Sept. 19, 1962, water-stage recorder at site 0.3 mi upstream at same datum. Since Nov. 11, 1938, auxiliary water-stage recorder at Norfolk & Western Railway bridge, 0.4 mi southeast of Valley City, 9.5 mi downstream, and at mile 61.3.

REMARKS.--Records good. Occasional regulation at low flow by navigation dam at La Grange. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal. U.S. Army Corps of Engineers gage-height data-collection platform at station.

AVERAGE DISCHARGE.--46 years, 32,092 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s May 26-28, 1943; maximum gage height, 28.61 ft May 26, 1943; minimum daily discharge, 1,330 ft³/s Sept. 2, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76,800 ft³/s Mar. 28; maximum gage height, 21.69 ft Mar. 29; minimum daily discharge, 1,330 ft³/s Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9290	11300	26800	24000	12000	53200	73100	55700	55600	22200	10900	2220
2	8570	11400	27300	23000	12000	51400	72500	55700	61000	21600	10400	1330
3	7780	11500	27900	22000	12000	49100	70800	55100	59800	22000	10300	4670
4	7720	11700	28000	22000	13000	47000	68700	54100	60800	20300	10700	6820
5	7240	10800	28000	20000	13000	44500	67500	52500	60400	18600	10600	7850
6	7170	10800	28200	19000	14000	42400	66300	50800	61200	17300	10600	7840
7	7540	11000	28500	18000	15000	40400	64900	48500	59800	15100	10200	7910
8	6380	9520	28200	18000	15800	39500	62500	46100	56100	16000	10100	7880
9	6430	8150	28000	17000	16100	38000	60300	44000	52800	15900	9770	7050
10	7130	8040	27700	17000	17700	36600	57900	42600	53500	15000	9670	7540
11	7490	7790	29000	17000	18000	35600	55600	40900	53100	14800	9820	8520
12	6810	7220	30400	17000	19100	34100	53300	39200	51500	15300	10300	8780
13	7160	6900	31300	17000	24400	32400	52500	38700	50800	15800	10800	7210
14	7000	6390	32800	16000	29900	31400	50400	37900	47800	16100	10800	6930
15	6830	6730	33800	16000	33500	30500	49100	36600	45200	17000	11000	6780
16	6640	7930	35200	16000	36900	30800	48000	34600	43300	17800	11000	7030
17	5490	8470	36100	15000	40800	33600	46700	33200	41900	16800	10000	6740
18	6550	8610	37500	15000	45900	36800	45300	31900	39700	15700	10500	6650
19	6990	8190	37900	15000	53300	39100	44100	31000	37800	14500	10100	6640
20	7010	9350	36200	14000	58600	43300	42700	36100	36000	13400	9730	6670
21	7470	9500	37200	14000	61300	47300	40200	42000	34100	13000	9850	6740
22	8130	10200	33600	14000	62700	51800	40000	45200	32500	12800	9400	6670
23	9850	13500	35200	14000	62700	58200	41600	46400	31200	12900	8700	6720
24	10300	16800	32500	13000	63300	63000	44900	47900	30000	12600	8190	6860
25	13200	19700	31700	13000	62100	66100	49200	48900	29100	12600	7850	6860
26	14800	23500	31000	13000	62000	70500	50800	48100	28200	13400	7360	9300
27	15100	22900	30000	13000	56200	73200	55400	50600	26800	16300	7600	11100
28	14800	24800	28000	13000	54400	75700	55700	50200	25700	15900	7050	9460
29	14000	24800	27000	13000	54300	73300	56000	51700	24400	13200	6320	9920
30	12500	26000	26000	13000	---	69500	54800	53400	23400	12900	5010	9560
31	11400	---	25000	12000	---	71400	---	53000	---	11300	4360	---
TOTAL	273770	373490	956000	503000	1040000	1509700	1640800	1402600	1313500	488100	288980	216250
MEAN	8831	12450	30840	16230	35860	48700	54690	45250	43780	15750	9322	7208
MAX	15100	26000	37900	24000	63300	75700	73100	55700	61200	22200	11000	11100
MIN	5490	6390	25000	12000	12000	30500	40000	31000	23400	11300	4360	1330

CAL YR 1983	TOTAL	10883550	MEAN	29820	MAX	94600	MIN	5490
WTR YR 1984	TOTAL	10006190	MEAN	27340	MAX	75700	MIN	1330

05585830 MC KEE CREEK AT CHAMBERSBURG, IL

LOCATION.--Lat 39°49'04", long 90°39'09", in NW1/4SE1/4 sec.8, T.3 S., R.2 W., Pike County, Hydrologic Unit 07130011, at bridge on State Highway 104 at east edge of Chambersburg, 3.8 mi downstream from Leinske Branch, 5.5 mi upstream from South Fork McKee Creek, and at mile 7.1.

DRAINAGE AREA.--341 mi².

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1959, 1962-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DE 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
NOV												
03...	1200	17002	17002	511	7.1	9.5	7.1	7.3	19	K1400	--	70
DEC												
27...	1100	17002	17002	599	7.3	.0	--	7.9	--	K110	--	--
MAR												
05...	1200	17002	17002	688	7.4	3.0	6.6	13.0	11	K20	320	82
APR												
04...	1000	17002	17002	400	7.2	7.0	17	10.7	33	330	180	50
26...	0900	17002	17002	417	7.2	12.0	29	9.3	15	340	240	60
JUN												
05...	1000	17002	17002	663	7.5	22.0	3.4	7.1	14	K190	340	87
28...	1100	17002	17002	690	7.9	22.0	3.3	6.8	28	360	350	94
JUL												
26...	1030	17002	17002	533	7.3	25.0	14	5.4	22	7600	250	66
AUG												
14...	1100	17002	17002	627	7.6	24.0	2.2	5.7	16	440	320	81

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)
NOV												
03...	--	26	--	11	--	3.8	--	60	12	.73	.160	<.001
DEC												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
05...	80	29	29	24	24	3.2	3.0	103	10	1.5	<.100	<.001
APR												
04...	45	19	16	11	11	3.5	2.6	590	30	1.6	<.100	<.001
26...	60	21	21	9.9	10	3.1	2.9	76	6	1.9	<.100	<.001
JUN												
05...	87	30	30	17	16	3.6	3.3	79	15	.55	<.100	<.002
28...	89	33	31	15	14	4.0	3.6	85	72	.12	<.100	<.004
JUL												
26...	64	23	22	9.9	9.7	4.3	4.0	125	13	<.10	<.100	<.001
AUG												
14...	80	29	29	11	10	3.6	3.4	45	10	<.10	<.100	<.002

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05585830 MC KEE CREEK AT CHAMBERSBURG, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV												
03...	--	--	1300	--	100	--	<1	--	<50	--	<3	--
DEC												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
05...	.080	.020	1100	74	100	84	<1	<.5	<50	<50	4	<3
APR												
04...	.370	.070	7500	100	200	58	<1	<.5	<50	<50	<3	<3
26...	.110	.050	1300	<50	100	81	<1	<.5	<50	<50	<3	<3
JUN												
05...	.100	.010	1300	<50	100	130	<1	<.5	<50	<50	4	<3
28...	.100	.010	1500	<50	200	150	<1	<.5	<50	<50	5	<3
JUL												
26...	.100	.020	2200	<50	100	120	<1	<.5	<50	<50	4	<3
AUG												
14...	.090	.010	760	<50	200	130	<1	<.5	73	66	22	3

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV												
03...	<5	--	5	--	<5	--	2100	--	<100	--	1100	--
DEC												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
05...	6	<5	<5	<5	<5	<5	1800	<50	<50	<50	130	53
APR												
04...	14	<5	11	<5	11	<5	12000	110	<50	<50	420	17
26...	9	<5	<5	<5	<5	<5	2200	<50	<50	<50	110	30
JUN												
05...	8	5	8	<5	<5	<5	1700	<50	<50	<50	250	170
28...	<5	<5	5	<5	<5	<5	1700	<50	<50	<50	520	220
JUL												
26...	<5	<5	<5	<5	<5	<5	2600	<50	<50	<50	400	180
AUG												
14...	<5	<5	<5	<5	<5	<5	1000	<50	<50	<50	640	330

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV											
03...	<.1	14	--	<3	--	150	--	<5	--	<100	--
DEC											
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
05...	<.1	<5	<5	<3	<3	190	190	<5	<5	<100	<100
APR											
04...	<.1	19	<5	<3	<3	130	110	19	<5	<50	<50
26...	<.1	7	<5	<3	<3	150	150	<5	<5	<50	<50
JUN											
05...	<.1	12	9	<3	<3	240	240	9	<5	<50	<50
28...	<.1	6	<5	<3	<3	250	240	<5	<5	<100	<100
JUL											
26...	<.1	8	<5	<3	<3	180	180	<5	<5	<100	<100
AUG											
14...	<.1	11	15	<3	<3	220	220	<5	<5	<100	<100

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05586040 MAUVAISE TERRE CREEK NEAR MERRITT, IL

LOCATION.--Lat 39°43'53", long 90°24'26", in NW¼SW¼ sec.23, T.15 N., R.12 W., Scott County, Hydrologic Unit 07130011, at bridge on county road, 0.5 mi downstream from Willow Branch, 1.3 mi northeast of Merritt, 3.2 mi south of State Highway 104 at Chapin, and at mile 19.4.

DRAINAGE AREA.--146 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L) (00335)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD- NESS (MG/L AS CACO3) (00900)
NOV												
01...	1100	17002	17002	4.0	713	7.1	10.5	4.0	8.4	25	K340	--
DEC												
21...	1000	17002	17002	E40	768	7.0	.0	2.9	10.6	14	K50	--
MAR												
05...	1000	17002	17002	130	724	7.1	3.0	3.3	12.5	11	K170	300
APR												
03...	1300	17002	17002	235	615	7.2	10.0	10	--	11	520	310
25...	0900	17002	17002	620	502	7.1	11.0	62	8.5	27	K4800	240
JUN												
05...	0900	17002	17002	170	616	7.2	19.0	6.6	6.7	19	K18000	290
28...	0900	17002	17002	84	680	7.5	22.0	7.1	6.3	31	K1600	290
JUL												
26...	0900	17002	17002	22	762	7.4	24.0	10	5.7	19	K360	320
AUG												
14...	0900	17002	17002	6.0	1110	7.7	22.0	2.9	6.7	32	1000	280

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV												
01...	52	--	31	--	69	--	8.3	--	24	12	.98	<.100
DEC												
21...	76	--	37	--	44	--	4.9	--	10	2	7.7	.350
MAR												
05...	69	67	34	33	27	26	2.3	2.2	27	4	6.6	<.100
APR												
03...	67	68	34	34	16	16	2.1	1.9	105	8	10	<.100
25...	55	54	26	26	7.5	7.5	2.6	2.1	185	25	9.6	.110
JUN												
05...	65	65	32	30	17	18	2.8	2.0	96	13	10	<.100
28...	66	64	34	32	24	23	3.7	2.8	187	163	9.9	<.100
JUL												
26...	70	69	35	35	47	46	5.2	4.8	72	12	7.3	<.100
AUG												
14...	59	55	37	35	130	130	13	13	75	14	4.5	<.100

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05586040 MAUVAISE TERRE CREEK NEAR MERRITT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
NOV												
01...	<.001	--	--	780	--	43	--	<1	--	170	--	<3
DEC												
21...	<.001	--	--	240	--	74	--	<2	--	96	--	3
MAR												
05...	<.001	.940	.500	380	96	66	60	<1	<.5	55	<50	4
APR												
03...	<.001	1.10	1.00	1700	<50	84	66	<1	<.5	52	52	<3
25...	<.001	.430	.320	3000	<50	100	68	<1	<.5	51	<50	<3
JUN												
05...	<.001	.840	.600	4100	<50	100	86	<2	<2	58	52	3
28...	<.002	1.70	1.40	5000	<50	200	92	<1	<.5	61	63	7
JUL												
26...	<.001	5.40	5.20	2100	<50	100	97	<1	<.5	120	110	8
AUG												
14...	<.002	11.0	10.0	2000	<50	83	50	<1	<2	240	230	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
NOV												
01...	--	<5	--	<5	--	<5	--	1000	--	<50	--	220
DEC												
21...	--	6	--	<5	--	<5	--	430	--	<50	--	150
MAR												
05...	<3	<5	<5	<5	<5	<5	<5	410	<50	<50	<50	98
APR												
03...	<3	<5	<5	<5	<5	20	<5	1700	<50	<50	<50	130
25...	<3	8	<5	<5	<5	5	<5	3900	<50	<50	<50	170
JUN												
05...	<3	6	<5	<5	<5	6	<5	4400	<50	<50	<50	200
28...	3	10	7	9	7	7	<5	5500	<50	100	<100	230
JUL												
26...	5	40	<5	6	<5	6	<5	2400	<50	<100	<50	220
AUG												
14...	<3	5	<5	<5	<5	<5	<5	2100	<50	<50	<50	270

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV												
01...	--	<.1	41	--	<3	--	110	--	6	--	<100	--
DEC												
21...	--	<.1	21	--	<3	--	140	--	<5	--	140	--
MAR												
05...	76	<.1	<5	<5	<3	<3	130	120	<5	<5	<100	<50
APR												
03...	75	<.1	6	<5	<3	<3	130	130	<5	<5	<50	<100
25...	47	<.1	6	<5	<3	<3	110	100	8	<5	<50	<50
JUN												
05...	47	<.1	12	<5	<3	<3	140	140	9	<5	<50	<50
28...	46	<.1	23	14	<3	5	150	140	13	8	<100	<100
JUL												
26...	120	<.1	25	6	<3	<3	150	150	10	<5	<100	<50
AUG												
14...	150	<.1	38	27	<3	<3	120	110	8	<5	<100	120

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05586100 ILLINOIS RIVER AT VALLEY CITY, IL
(National stream-quality accounting network station)

LOCATION.--Lat 39°42'10", long 90°38'40", in SW1/4NW1/4 sec.34, T.15 N., R.14 W., Pike County, Hydrologic Unit 07130011, 9.5 mi downstream from discharge station at Meredosia, on Norfolk & Western Railroad bridge, at Flints Creek, 0.5 mi east of Valley City, 1.8 mi downstream from Mauvaise Terre Creek, and at mile 61.3.

DRAINAGE AREA.--26,564 mi^2.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: February 1980 to current year.

REMARKS.--Records of discharge are given for Illinois River at Meredosia (station 05585500).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,720 mg/L Apr. 14, 1981; minimum daily mean, 14 mg/L Dec. 26, 1984.
SEDIMENT LOADS: Maximum daily, 410,000 tons June 4, 1980; minimum daily 172 tons Sept. 2, 1984.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,010 mg/L Mar. 16; minimum daily mean, 14 mg/L Dec. 26.
SEDIMENT LOADS: Maximum daily, 251,000 tons Mar. 16; minimum daily, 172 tons Sept. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
13...	1100	81700	17002	7300	465	7.3	16.0	--	7.7	24	--
NOV											
16...	1035	81700	80010	8100	630	7.3	8.0	25	10.5	--	--
16...	1100	17002	17002	8100	575	7.5	8.5	--	9.2	21	K60
16...	1105	81700	17002	8100	--	--	--	--	--	19	--
JAN											
04...	1100	81700	17002	E21000	675	7.8	.5	--	13.4	17	--
MAR											
07...	1300	81700	17002	41200	--	--	--	--	--	19	--
07...	1305	81700	80010	41200	615	8.2	3.0	23	14.1	--	--
APR											
26...	1103	17002	17002	51800	550	7.4	12.0	48	9.2	19	K750
26...	1305	81700	80010	51800	550	7.4	12.0	50	9.2	--	--
26...	1310	81700	17002	51800	--	--	--	--	--	19	K500
JUN											
06...	1000	81700	17002	62400	555	7.7	22.0	--	7.1	17	--
JUL											
18...	1103	81700	17002	16000	555	7.4	27.0	--	5.8	15	<10
AUG											
28...	1230	81700	80010	7200	730	--	27.5	22	7.6	--	--
28...	1303	81700	17002	7200	--	--	--	--	--	23	--

E Estimated.
K Results based on colony count outside the acceptable range (non-ideal colony count).

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT											
13...	460	—	250	77	.00	61	58	27	25	46	49
NOV											
16...	K60	620	270	65	—	—	63	—	27	—	35
16...	—	—	270	90	.00	64	62	28	27	41	41
16...	—	—	—	—	.00	64	—	28	—	40	—
JAN											
04...	110	3400	330	140	.00	79	78	33	33	34	34
MAR											
07...	—	—	—	—	.00	69	—	28	—	28	—
07...	K10	K5	280	110	—	—	67	—	27	—	24
APR											
26...	—	—	250	110	.00	58	57	25	25	16	15
26...	—	—	230	84	—	—	55	—	23	—	17
26...	—	K380	250	100	.00	58	58	26	25	15	16
JUN											
06...	K70	—	260	99	.00	60	60	26	26	21	21
JUL											
18...	—	—	260	98	.00	62	61	28	27	32	34
AUG											
28...	K170	290	230	64	—	—	54	—	24	—	43
28...	—	—	—	—	.00	56	—	25	—	43	—

DATE	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
OCT											
13...	4.5	4.3	171	76	—	.5	—	—	—	—	148
NOV											
16...	—	4.2	184	83	49	—	.50	6.2	420	380	—
16...	4.5	4.4	177	87	48	.3	—	—	—	—	48
16...	4.6	—	—	—	—	—	—	—	—	—	46
JAN											
04...	3.4	3.3	135	83	—	.3	—	—	—	—	35
MAR											
07...	2.8	—	—	—	—	—	—	—	—	—	48
07...	—	2.5	174	70	47	—	.20	7.8	396	350	—
APR											
26...	3.0	2.7	132	66	32	.3	—	—	—	—	70
26...	—	2.3	149	59	28	—	.20	6.1	—	280	—
26...	3.0	2.8	145	65	—	.3	—	—	—	—	95
JUN											
06...	3.1	2.8	158	56	—	.3	—	—	—	—	58
JUL											
18...	4.0	3.8	166	70	—	.4	—	—	—	—	316
AUG											
28...	—	4.0	170	75	—	—	.50	.4	390	—	—
28...	4.4	—	—	—	—	—	—	—	—	—	58

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)
OCT											
13...	20	2.0	—	<.100	<.001	—	—	1.3	3.3	.320	.130
NOV											
16...	—	—	2.6	—	—	.200	—	1.5	—	.310	.210
16...	7	2.5	—	<.100	<.001	—	—	1.2	3.7	.270	.180
16...	6	—	—	—	—	—	—	—	—	—	—
JAN											
04...	3	6.9	—	.250	<.001	—	1.1	1.3	8.2	.020	—
MAR											
07...	5	—	—	—	—	—	—	—	—	—	—
07...	—	—	5.3	—	—	.300	—	1.0	—	.180	.140
APR											
26...	4	5.4	—	.180	.001	—	1.2	1.4	6.8	.180	.100
26...	—	—	5.3	—	—	.090	—	1.3	—	.230	.110
26...	83	5.4	—	.130	<.001	—	.97	1.1	6.5	.200	.080
JUN											
06...	14	6.7	—	<.100	<.002	—	—	1.1	7.8	.170	.110
JUL											
18...	40	2.8	—	<.100	<.002	—	—	.50	3.3	.310	.120
AUG											
28...	—	—	1.8	—	—	.120	—	1.0	—	.190	.160
28...	49	—	—	—	—	—	—	—	—	—	—

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT											
13...	2100	91	5	—	75	53	<1	<.5	190	200	<3
NOV											
16...	—	10	—	1	—	74	—	<.5	—	—	—
16...	630	<50	2	—	68	57	<1	<1.0	150	150	<3
16...	670	—	—	—	69	—	<1	—	150	—	<3
JAN											
04...	580	<50	1	—	65	58	<2	<2.0	120	110	<3
MAR											
07...	840	—	—	—	54	—	<1	—	82	—	3
07...	—	<10	—	1	—	55	—	<.5	—	—	—
APR											
26...	1700	<50	3	—	77	55	<1	<.5	72	71	<3
26...	—	30	—	1	—	67	—	<1.0	—	—	—
26...	1800	83	3	—	78	57	<1	<.5	77	79	<3
JUN											
06...	2100	140	2	—	83	63	<1	<1.0	89	94	<3
JUL											
18...	2600	<50	8	—	100	81	<1	<2.0	130	120	<3
AUG											
28...	—	20	—	2	—	64	—	<.0	—	—	—
28...	1200	—	—	—	75	—	<1	—	190	—	<3

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
OCT											
13...	<3	<5	<5	<5	<5	7	<5	3300	<50	<50	<50
NOV											
16...	<1	—	<1	—	<3	—	4	—	15	—	1
16...	<3	<5	<5	<5	<5	<5	<5	1300	<50	<50	<50
16...	—	7	—	<5	—	<5	—	1400	—	<50	—
JAN											
04...	<3	13	9	<5	<5	6	<5	960	<50	<50	<50
MAR											
07...	—	<5	—	<5	—	8	—	1200	—	<50	—
07...	<1	—	<1	—	<3	—	4	—	15	—	<1
APR											
26...	<3	10	<5	<5	<5	<5	<5	2400	<50	<50	<50
26...	<1	—	<1	—	<3	—	3	—	55	—	1
26...	<3	<5	<5	<5	<5	<5	<5	2300	<50	<50	<50
JUN											
06...	<3	<5	7	<5	<5	6	6	2200	<50	<50	<50
JUL											
18...	<3	<5	<5	<5	<5	7	<5	3700	<50	<50	<50
AUG											
28...	<1	—	1	—	<3	—	3	—	<3	—	2
28...	—	7	—	8	—	6	—	1000	—	<50	—

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
OCT											
13...	210	18	<.1	—	12	<5	—	<3	<3	240	240
NOV											
16...	—	21	—	<.1	—	6	<1	—	<1	—	240
16...	120	23	<.1	—	7	<5	—	<3	<3	250	240
16...	120	—	—	—	13	—	—	<3	—	250	—
JAN											
04...	78	46	<.1	—	11	10	—	<3	<3	210	210
MAR											
07...	54	—	—	—	<5	—	—	<3	—	180	—
07...	—	12	—	.2	—	5	<1	—	<1	—	180
APR											
26...	90	<5	<.1	—	8	<5	—	<3	<3	140	140
26...	—	4	—	<.1	—	6	1	—	<1	—	140
26...	94	<5	<.1	—	<5	<5	—	<3	<3	140	140
JUN											
06...	99	<5	<.1	—	<5	<5	—	<3	<3	170	180
JUL											
18...	290	<5	<.1	—	7	<5	—	<3	<3	220	220
AUG											
28...	—	3	—	.3	—	7	<1	—	<1	—	240
28...	130	—	—	—	21	—	—	3	—	280	—

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	VANADIUM, TOTAL (UG/L AS V) (01087)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
13...	<5	<5	--	--	<.01	<5	1	--	--	--
NOV										
16...	--	<6	--	12	--	--	--	59	1290	93
16...	<5	<5	<100	<100	<.01	<5	1	--	--	--
16...	<5	--	130	--	<.01	<5	--	--	--	--
JAN										
04...	<5	<5	<100	<100	<.01	<5	0	--	--	--
MAR										
07...	<5	--	<100	--	<.01	<5	0	--	--	--
07...	--	<6	--	14	--	--	--	--	--	--
APR										
26...	<5	<5	<50	<50	<.01	<5	0	--	--	--
26...	--	<6	--	7	--	--	--	90	12600	96
26...	5	<5	<50	<50	<.01	<5	1	--	--	--
JUN										
06...	7	7	<100	<50	<.01	<5	0	--	--	--
JUL										
18...	8	<5	<50	<50	<.01	<5	1	302	13000	99
AUG										
28...	--	<6	--	5	--	--	--	57	1110	99
28...	8	--	<50	--	<.01	<5	1	--	--	--

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	9290	89	2230	11300	100	3050	26800	437	31600
2	8570	56	1300	11400	79	2430	27300	384	28300
3	7780	47	987	11500	76	2360	27900	340	25600
4	7720	66	1380	11700	78	2460	28000	294	22200
5	7240	86	1680	10800	82	2390	28000	255	19300
6	7170	98	1900	10800	98	2860	28200	217	16500
7	7540	98	2000	11000	104	3090	28500	194	14900
8	6380	90	1550	9520	92	2360	28200	180	13700
9	6430	90	1560	8150	73	1610	28000	171	12900
10	7130	98	1890	8040	70	1520	27700	162	12100
11	7490	105	2120	7790	82	1720	29000	549	43000
12	6810	120	2210	7220	109	2120	30400	569	46700
13	7160	113	2180	6900	120	2240	31300	290	24500
14	7000	97	1830	6390	83	1430	32800	398	35200
15	6830	128	2360	6730	55	999	33800	315	28700
16	6640	161	2890	7930	60	1280	35200	276	26200
17	5490	127	1880	8470	80	1830	36100	238	23200
18	6550	100	1770	8610	82	1910	37500	219	22200
19	6990	87	1640	8190	82	1810	37900	182	18600
20	7010	86	1630	9350	106	2680	36200	152	14900
21	7470	108	2180	9500	125	3210	37200	99	9940
22	8130	166	3640	10200	126	3470	33600	72	6530
23	8850	178	4250	13500	319	12400	35200	55	5230
24	10300	181	5030	16800	707	32100	32500	32	2810
25	13200	157	5600	19700	487	25900	31700	16	1370
26	14800	122	4880	23500	486	30800	31000	14	1170
27	15100	124	5060	22900	786	48600	30000	20	1620
28	14800	147	5870	24800	650	43500	28000	23	1740
29	14000	163	6160	24800	572	38300	27000	25	1820
30	12500	161	5430	26000	493	34600	26000	28	1970
31	11400	138	4250	---	---	---	25000	30	2030
TOTAL	273770	---	89337	373490	---	315029	956000	---	516530

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05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	24000	33	2140	12000	100	3240	53200	50	7180
2	23000	27	1680	12000	101	3270	51400	54	7490
3	22000	42	2490	12000	102	3300	49100	54	7160
4	22000	50	2970	13000	103	3620	47000	55	6980
5	20000	56	3020	13000	104	3650	44500	56	6730
6	19000	62	3180	14000	116	4380	42400	58	6640
7	18000	67	3260	15000	121	4900	40400	55	6000
8	18000	72	3500	15800	122	5200	39500	63	6720
9	17000	77	3530	16100	120	5220	38000	68	6980
10	17000	79	3630	17700	106	5070	36600	68	6720
11	17000	80	3670	18000	98	4760	35600	80	7690
12	17000	85	3900	19100	105	5410	34100	85	7830
13	17000	85	3900	24400	564	39100	32400	82	7170
14	16000	85	3670	29900	425	34300	31400	74	6270
15	16000	85	3670	33500	525	47500	30500	62	5110
16	16000	85	3670	36900	638	63600	30800	3010	251000
17	15000	85	3440	40800	555	61100	33600	2210	200000
18	15000	83	3360	45900	367	45500	36800	1050	104000
19	15000	82	3320	53300	390	56100	39100	1650	174000
20	14000	84	3180	58600	340	53800	43300	1190	139000
21	14000	88	3330	61300	187	31000	47300	430	54900
22	14000	90	3400	62700	140	23700	51800	250	35000
23	14000	92	3480	62700	122	20700	58200	200	31400
24	13000	93	3260	63300	108	18500	63000	157	26700
25	13000	93	3260	62100	90	15100	66100	154	27500
26	13000	94	3300	62000	72	12100	70500	132	25100
27	13000	95	3330	56200	64	9710	73200	108	21300
28	13000	95	3330	54400	58	8520	75700	93	19000
29	13000	96	3370	54300	51	7480	73300	82	16200
30	13000	98	3440	---	---	---	69500	68	12800
31	12000	99	3210	---	---	---	71400	60	11600
TOTAL	503000	---	101890	1040000	---	599830	1509700	---	1252170
		APRIL			MAY			JUNE	
1	73100	54	10700	55700	83	12500	55600	110	16500
2	72500	52	10200	55700	87	13100	61000	90	14800
3	70800	48	9180	55100	88	13100	59800	80	12900
4	68700	42	7790	54100	85	12400	60800	75	12300
5	67500	45	8200	52500	82	11600	60400	75	12200
6	66300	60	10700	50800	78	10700	61200	78	12900
7	64900	56	9810	48500	75	9820	59800	78	12600
8	62500	49	8270	46100	72	8960	56100	76	11500
9	60300	56	9120	44000	73	8670	52800	582	83000
10	57900	42	6570	42600	77	8860	53500	632	91300
11	55600	41	6150	40900	82	9060	53100	198	28400
12	53300	43	6190	39200	90	9530	51500	175	24300
13	52500	48	6800	38700	98	10200	50800	141	19300
14	50400	60	8160	37900	100	10200	47800	141	18200
15	49100	82	10900	36600	98	9680	45200	121	14800
16	48000	97	12600	34600	90	8410	43300	108	12600
17	46700	99	12500	33200	82	7350	41900	107	12100
18	45300	93	11400	31900	70	6030	39700	107	11500
19	44100	90	10700	31000	63	5270	37800	106	10800
20	42700	90	10400	36100	1430	141000	36000	106	10300
21	40200	115	12500	42000	1760	196000	34100	105	9670
22	40000	1370	148000	45200	560	68300	32500	105	9210
23	41600	740	83100	46400	515	64500	31200	104	8760
24	44900	220	26700	47900	300	38800	30000	103	8340
25	49200	133	17700	48900	227	30000	29100	103	8090
26	50800	100	13700	48100	214	27800	28200	102	7770
27	55400	78	11700	50600	201	27500	26800	101	7310
28	55700	67	10100	50200	189	25600	25700	101	7010
29	56000	65	9830	51700	170	23700	24400	100	6590
30	54800	73	10800	53400	148	21300	23400	100	6320
31	---	---	---	53000	128	18300	---	---	---
TOTAL	1640800	---	530470	1402600	---	868240	1313500	---	521370

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05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	22200	99	5930	10900	190	5590	2220	45	270
2	21600	98	5720	10400	172	4830	1330	48	172
3	22000	98	5820	10300	150	4170	4670	55	693
4	20300	97	5320	10700	120	3470	6820	68	1250
5	18600	97	4870	10600	89	2550	7850	81	1720
6	17300	96	4480	10600	80	2290	7840	89	1880
7	15100	93	3790	10200	77	2120	7910	81	1730
8	16000	90	3890	10100	80	2180	7880	72	1530
9	15900	79	3390	9770	87	2290	7050	79	1500
10	15000	70	2840	9670	90	2350	7540	94	1910
11	14800	70	2800	9820	90	2390	8520	500	12000
12	15300	74	3060	10300	88	2450	8780	212	5270
13	15800	85	3630	10800	85	2480	7210	137	2670
14	16100	90	3910	10800	81	2360	6930	129	2410
15	17000	731	34100	11000	80	2380	6780	147	2690
16	17800	620	29800	11000	76	2260	7030	87	1650
17	16800	339	15400	10000	72	1940	6740	71	1290
18	15700	312	13200	10500	70	1980	6650	66	1190
19	14500	278	10900	10100	65	1770	6640	67	1200
20	13400	182	6580	9730	62	1630	6670	68	1220
21	13000	157	5510	9850	61	1620	6740	69	1260
22	12800	163	5630	9400	69	1750	6670	69	1240
23	12900	167	5820	8700	75	1760	6720	70	1270
24	12600	172	5850	8190	70	1550	6860	73	1350
25	12600	173	5890	7850	65	1380	6860	77	1430
26	13400	188	6800	7360	66	1310	9300	77	1930
27	16300	796	35000	7600	70	1440	11100	385	11500
28	15900	357	15300	7050	73	1390	9460	230	5870
29	13200	260	9270	6320	72	1230	9920	110	2950
30	12900	227	7910	5010	65	879	9560	86	2220
31	11300	207	6320	4360	51	600	---	---	---
TOTAL	488100	---	278730	288980	---	68389	216250	---	75265
YEAR	10006190		5217250						

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05586600 APPLE CREEK NEAR ELDRED, IL

LOCATION.--Lat 39°22'11", long 90°32'46", in NE¼ sec.28, T.11 N., R.13 W., Greene County, Hydrologic Unit 07130011, at bridge on county road, 3.9 mi downstream from Crooked Creek, 5.7 mi north of Eldred, and at mile 6.1.

DRAINAGE AREA.--404 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year. Additional chemical data for water years 1959, 1961-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DB 01.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)
OCT												
26...	1200	17002	17002	689	7.0	10.0	5.5	7.6	25	K2000	--	49
DEC												
12...	1300	17002	17002	779	6.7	3.5	5.7	7.9	43	15000	--	32
MAR												
01...	1000	17002	17002	640	6.9	1.0	2.1	12.9	14	K95	300	72
APR												
03...	1000	17002	17002	490	7.8	10.0	11	--	39	1100	250	63
24...	1300	17002	17002	188	6.8	10.0	150	9.5	66	2100	86	28
JUN												
04...	1000	17002	17002	582	7.3	20.0	2.7	6.6	13	420	280	69
28...	1000	17002	17002	398	7.4	22.0	4.2	5.8	40	K5000	190	48
AUG												
08...	1000	17002	17002	586	7.6	26.0	4.7	6.1	19	K340	280	72
SEP												
13...	1200	17002	17002	232	6.8	22.0	390	5.9	51	K16000	88	32

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)
OCT												
26...	--	18	--	7.2	--	5.4	--	60	10	.73	.350	<.001
DEC												
12...	--	12	--	5.4	--	4.4	--	240	40	2.6	.120	<.001
MAR												
01...	72	28	28	14	14	2.6	2.5	14	11	4.5	.150	<.001
APR												
03...	62	25	24	9.9	9.9	2.9	2.1	198	20	4.7	<.100	<.001
24...	22	11	7.6	2.3	2.2	3.8	2.2	245	35	1.8	.110	<.001
JUN												
04...	69	27	26	14	14	3.0	2.4	152	16	5.5	<.100	<.001
28...	47	19	17	9.1	8.6	4.9	3.1	276	238	3.6	<.100	<.001
AUG												
08...	71	27	26	12	12	3.2	2.9	83	8	1.5	<.100	<.003
SEP												
13...	23	12	7.4	3.4	2.8	5.7	3.9	276	80	.84	.100	<.001

K Results based on colony count outside the acceptable range (non-ideal colony count).

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05586600 APPLE CREEK NEAR ELDRED, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
OCT												
26...	--	--	1600	--	96	--	<1	--	120	--	<3	--
DEC												
12...	--	--	6800	--	100	--	<2	--	<50	--	5	--
MAR												
01...	.110	.070	410	58	81	75	<1	<.5	<50	<50	<3	<3
APR												
03...	.250	.070	3600	88	100	72	<1	<.5	<50	<50	<3	<3
24...	.250	.090	13000	450	200	41	<1	<.5	<50	<50	<3	<3
JUN												
04...	.210	.080	3400	<50	100	100	<2	<1	<50	<50	4	<3
28...	.440	.070	9900	<50	200	88	<1	<.5	<50	<50	15	3
AUG												
08...	.170	.040	1600	<50	100	110	<2	<2	<50	<50	<3	<3
SEP												
13...	.550	.080	12000	88	20C	50	<2	<.5	53	<50	5	<3

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT												
26...	5	--	6	--	<5	--	2400	--	<50	--	290	--
DEC												
12...	18	--	9	--	13	--	9000	--	<100	--	410	--
MAR												
01...	8	<5	<5	<5	<5	<5	650	<50	<50	<50	170	150
APR												
03...	7	<5	<5	<5	<5	<5	4700	<50	<50	<50	260	99
24...	17	<5	15	<5	23	<5	17000	530	<100	<50	560	12
JUN												
04...	32	<5	8	<5	7	<5	3800	<50	<50	<50	230	38
28...	33	<5	22	8	15	<5	12000	<50	160	<100	470	67
AUG												
08...	<5	<5	<5	<5	<5	<5	1900	<50	<50	<50	390	160
SEP												
13...	13	<5	11	<5	19	<5	17000	100	<100	<50	640	17

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
26...	<.1	16	--	<3	--	100	--	<5	--	<50	--
DEC											
12...	<.1	21	--	<3	--	77	--	19	--	<100	--
MAR											
01...	<.1	6	<5	<3	<3	160	160	<5	<5	<50	<50
APR											
03...	<.1	7	<5	<3	<3	140	130	9	<5	<50	<50
24...	<.1	26	<5	<3	<3	74	55	30	<5	<50	<50
JUN											
04...	<.1	74	<5	<3	<3	180	180	13	<5	<100	<100
28...	<.1	50	9	5	4	130	120	29	<5	<100	<100
AUG											
08...	<.1	<5	<5	<3	<3	150	140	<5	<5	<50	<50
SEP											
13...	<.1	29	<5	<3	<3	85	59	23	<5	100	<50

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05586690 MACOUPIN CREEK NEAR MACOUPIN, IL

LOCATION.--Lat 39°12'04", long 89°58'45", in NW¼NW¼ sec.27, T.9 N., R.8 W., Macoupin County, Hydrologic Unit 07130012, at bridge on Macoupin-Plainview Road, 1.5 mi downstream from Dry Fork, 1.5 mi southwest of Macoupin, 10.4 mi upstream from Coop Branch, and at mile 52.5.

DRAINAGE AREA.--304 mi^2.

PERIOD OF RECORD.--Water years 1979 to current year. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site DA 04.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT											
27...	1300	17002	17002	--	603	7.2	10.5	6.0	8.3	30	K5400
DEC											
14...	1300	17002	17002	--	787	7.3	2.5	3.9	8.5	36	2800
MAR											
01...	1400	17002	17002	190	697	7.1	2.0	3.7	12.6	9	K320
APR											
02...	1300	17002	17002	174	560	7.1	10.0	5.1	10.9	15	K20
24...	0900	17002	17002	1350	307	6.9	8.0	170	9.3	46	2900
JUN											
04...	1300	17002	17002	81	704	7.3	20.0	3.1	7.1	19	310
28...	1300	17002	17002	14	507	7.6	23.0	3.2	6.7	27	K1000
AUG											
08...	1300	17002	17002	1.9	716	7.6	26.0	3.1	6.5	19	K160
SEP											
13...	0930	17002	17002	--	241	6.8	22.0	47	6.1	31	K4300

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT											
27...	--	--	.00	42	--	15	--	29	--	5.7	--
DEC											
14...	--	--	.00	34	--	13	--	8.4	--	4.2	--
MAR											
01...	280	130	.00	65	66	28	28	43	44	3.5	3.4
APR											
02...	260	110	.00	62	61	26	25	18	18	2.5	2.3
24...	130	110	.00	35	32	14	12	8.7	8.6	3.2	2.6
JUN											
04...	280	120	.00	68	69	26	26	50	51	3.1	2.9
28...	220	66	.00	60	55	22	21	21	21	4.0	3.5
AUG											
08...	300	68	.00	73	73	28	28	40	39	4.7	4.6
SEP											
13...	92	27	.00	25	24	8.5	7.8	6.8	6.9	5.0	4.8

K Results based on colony count outside the acceptable range (non-ideal colony count).

05586690 MACOUPIN CREEK NEAR MACOUPIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUS-PENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT											
27...	91	66	50	14	1.1	.100	<.001	--	--	1900	--
DEC											
14...	25	48	275	50	4.3	<.100	<.001	--	--	5700	--
MAR											
01...	153	120	36	31	4.0	.190	<.001	.190	.130	910	59
APR											
02...	143	86	49	5	6.0	<.100	<.001	.170	.090	1200	<50
24...	22	54	170	25	3.4	.130	<.001	.330	.110	5400	150
JUN											
04...	162	110	58	13	6.1	<.100	<.001	.190	.110	1500	<50
28...	158	64	102	86	2.8	<.100	<.002	.260	.180	2500	<50
AUG											
08...	230	77	37	8	<.10	<.100	<.003	.190	.100	850	<50
SEP											
13...	65	29	228	30	.74	.230	<.001	.440	.260	2700	62

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT											
27...	91	--	<1	--	90	--	<3	--	<5	--	<5
DEC											
14...	200	--	<2	--	<50	--	3	--	12	--	6
MAR											
01...	93	81	<2	<2	53	56	<3	<3	<5	<5	<5
APR											
02...	100	83	<1	<.5	<50	<50	<3	<3	<5	<5	<5
24...	100	57	<1	<.5	<50	<50	<3	<3	<5	<5	7
JUN											
04...	100	120	<1	<1	78	76	4	<3	10	<5	<5
28...	100	97	<1	<.5	<50	<50	3	<3	10	<5	<5
AUG											
08...	100	130	<1	<.5	120	120	<3	<3	<5	<5	<5
SEP											
13...	98	53	<1	<.5	<50	<50	<3	<3	9	<5	<5

05586690 MACOUPIN CREEK NEAR MACOUPIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT										
27...	--	5	--	2400	--	<50	--	460	--	<.1
DEC										
14...	--	12	--	7500	--	<100	--	310	--	<.1
MAR										
01...	<5	<5	<5	1200	<50	<50	<50	200	160	<.1
APR										
02...	<5	<5	<5	1500	<50	<50	<50	140	110	<.1
24...	<5	8	<5	6400	160	<50	<50	210	37	<.1
JUN										
04...	<5	<5	<5	1500	<50	<50	<50	130	70	<.1
28...	6	<5	<5	2500	<50	<100	<100	270	100	<.1
AUG										
08...	<5	<5	<5	1000	<50	<50	<50	750	560	<.1
SEP										
13...	<5	6	<5	3300	96	<50	<50	220	68	<.1

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, TOTAL (UG/L AS V) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT										
27...	12	--	<3	--	140	--	<5	--	<100	--
DEC										
14...	17	--	<3	--	97	--	14	--	110	--
MAR										
01...	<5	<5	<3	<3	200	210	<5	<5	--	--
APR										
02...	<5	<5	<3	<3	170	170	<5	<5	<50	<50
24...	9	<5	<3	<3	110	97	13	<5	<50	<50
JUN										
04...	6	<5	<3	<3	260	260	10	<5	<50	<50
28...	5	8	<3	<3	190	180	<5	<5	<100	<50
AUG										
08...	9	<5	<3	<3	240	240	<5	<5	<100	<50
SEP										
13...	21	11	<3	<3	82	76	8	<5	<50	<50

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05587000 MACOUPIN CREEK NEAR KANE, IL

LOCATION.--Lat 39°14'03", long 90°23'40", in SE¼SE¼ sec.11, T.9 N., R.12 W., Greene County, Hydrologic Unit 07130012, near center of span on downstream side of bridge on State Highway 267, 1.4 mi downstream from Link Branch, 3.5 mi northwest of Kane, and at mile 16.1.

DRAINAGE AREA.--868 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1921 to November 1933, May to August 1940, October 1940 to current year.

REVISED RECORDS.--WSP 1175: 1924. WSP 1308: 1922(M), 1928(M), 1931(M). WDR IL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 426.77 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1928, at site 2.0 mi upstream at various datums. May 17, 1940, to May 17, 1943, water-stage recorder, and May 18, 1943, to July 19, 1970, nonrecording gage at site 800 ft downstream at present datum. July 20 to Sept. 18, 1970, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--56 years (water years 1922-33, 1941-84), 544 ft^3/s, 8.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft^3/s May 18, 1943, gage height, 28.5 ft; no flow Oct. 19-27, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 10	2200	8090	20.80	Mar. 25	1545	6120	19.06
Feb. 14	0300	5770	18.60	Apr. 4	0500	5850	18.72
Mar. 17	1830	9940	21.69	Apr. 22	1200	*17500	*24.21
Mar. 20	0215	11600	22.36	May 28	0015	5020	17.37

Minimum daily discharge, 4.2 ft^3/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	9.8	947	180	550	600	738	1410	800	38	16	7.4
2	5.7	37	330	200	700	645	634	774	583	36	16	7.6
3	5.0	37	914	250	984	898	1600	566	512	35	15	15
4	5.0	114	1510	300	1480	2280	5580	669	399	35	20	51
5	5.0	63	1140	350	1230	4230	3970	598	369	60	16	23
6	4.7	43	924	450	1030	3620	2000	671	336	43	18	18
7	4.7	28	648	500	730	2490	1050	845	290	43	15	15
8	4.7	21	426	550	1170	1330	983	618	221	38	14	292
9	4.7	18	592	600	2220	868	1030	433	174	37	14	2690
10	4.4	56	6630	520	2510	700	928	318	167	33	13	1730
11	4.2	53	7780	450	2800	631	789	262	160	31	13	3510
12	5.6	67	6740	350	2980	563	727	219	129	31	12	1200
13	6.0	52	5560	250	4670	493	700	776	111	30	12	321
14	5.7	33	4380	200	5220	525	640	3050	100	28	12	1730
15	5.7	23	2850	170	3430	2430	600	2080	88	36	11	848
16	5.4	17	1560	150	1770	8960	540	721	82	49	11	249
17	6.0	14	550	130	2090	9450	500	494	80	57	10	114
18	6.7	11	450	110	2460	8950	460	363	76	34	20	68
19	12	16	400	100	2570	10100	420	301	69	27	34	48
20	29	184	350	90	1710	11200	358	504	63	24	26	37
21	62	395	300	80	963	10100	6560	624	64	22	17	30
22	353	194	270	70	693	6400	16400	599	64	22	15	26
23	225	133	240	70	578	1990	14900	1110	71	21	15	28
24	135	675	220	90	478	1780	12300	1310	168	20	13	27
25	99	334	200	180	412	5670	4580	944	191	19	11	30
26	49	217	190	300	382	5130	1520	3700	95	18	10	28
27	28	1930	180	600	601	5300	1040	3940	63	17	9.8	22
28	20	3910	170	800	570	4190	734	4570	55	17	9.3	19
29	15	1940	160	1000	604	2870	691	3420	48	17	8.9	17
30	12	1400	160	1000	---	1380	2950	1800	42	16	8.8	16
31	11	---	160	650	---	932	---	1220	---	16	8.6	---
TOTAL	1144.9	12024.8	46931	10740	47585	116705	85922	38909	5670	950	444.4	13217.0
MEAN	36.9	401	1514	346	1641	3765	2864	1255	189	30.6	14.3	441
MAX	353	3910	7780	1000	5220	11200	16400	4570	800	60	34	3510
MIN	4.2	9.8	160	70	382	493	358	219	42	16	8.6	7.4
CFSM	.04	.46	1.74	.40	1.89	4.34	3.30	1.45	.22	.04	.02	.51
IN.	.05	.52	2.01	.46	2.04	5.00	3.68	1.67	.24	.04	.02	.57

CAL YR 1983 TOTAL 256572.7 MEAN 703 MAX 14400 MIN 4.2 CFSM .81 IN. 11.00
WTR YR 1984 TOTAL 380243.1 MEAN 1039 MAX 16400 MIN 4.2 CFSM 1.20 IN. 16.30

05587000 Macoupin Creek near Kane, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
26...	1300	17002	17002	50	511	7.2	10.5	6.0	8.1	26	5800
DEC											
14...	1100	17002	17002	4460	811	7.4	2.0	9.1	8.7	40	3100
MAR											
01...	1200	17002	17002	577	626	7.2	2.0	4.0	12.6	12	400
APR											
02...	0900	17002	17002	636	575	7.2	9.0	9.3	11.0	21	K140
24...	1100	17002	17002	12600	193	6.9	9.0	150	9.5	66	K1400
JUN											
04...	1100	17002	17002	335	622	7.3	20.5	2.5	7.3	13	500
28...	1100	17002	17002	58	537	7.5	24.0	2.9	7.2	18	K800
AUG											
08...	1100	17002	17002	14	581	7.6	28.0	4.7	7.6	21	K80
SEP											
13...	1100	17002	17002	320	244	6.9	23.0	57	6.4	38	K8000

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT											
26...	--	--	.00	49	--	18	--	59	--	7.3	--
DEC											
14...	--	--	.00	34	--	13	--	8.4	--	4.2	--
MAR											
01...	270	110	.00	66	65	28	27	22	22	3.3	3.2
APR											
02...	280	110	.00	69	67	28	27	17	17	2.9	2.6
24...	81	--	.00	44	20	21	7.5	4.0	3.8	3.9	2.3
JUN											
04...	290	96	.00	71	70	28	28	24	24	3.4	3.0
28...	250	70	.00	63	61	24	24	20	20	3.9	3.5
AUG											
08...	270	41	.00	67	66	26	26	20	19	3.3	3.1
SEP											
13...	95	37	.00	27	25	9.5	7.9	6.4	6.1	5.5	4.8

K Results based on colony count outside the acceptable range (non-ideal colony count).

05587000 Macoupin Creek near Kane, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUSPENDED (MG/L) (00535)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UNIONIZED (MG/L AS N) (00619)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT 26...	113	89	78	16	1.7	.290	<.001	--	--	2000	--
DEC 14...	27	43	225	45	4.5	<.100	<.001	--	--	5800	--
MAR 01...	165	92	41	35	4.2	.160	<.001	.190	.090	1100	54
APR 02...	171	79	148	11	4.9	<.100	<.001	.210	.070	2300	90
24...	<10	42	325	35	1.6	.130	<.001	.660	.100	11000	230
JUN 04...	195	82	152	18	4.8	<.100	<.001	.210	.090	2700	<50
28...	182	58	78	66	2.3	<.100	.002	.210	.090	2000	<50
AUG 08...	231	51	93	16	.47	<.100	<.003	.150	.020	1200	<50
SEP 13...	58	23	280	30	.94	.170	<.001	.450	.200	3800	<50

DATE	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT 26...	100	--	<1	--	150	--	<3	--	<5	--	<5
DEC 14...	200	--	<1	--	<50	--	4	--	14	--	<5
MAR 01...	99	78	<2	<1	<50	<50	<3	<3	<5	<5	<5
APR 02...	100	86	<1	<.5	<50	<50	<3	<3	<5	<5	<5
24...	300	42	<2	<.5	<50	<50	<3	<3	12	<5	25
JUN 04...	100	110	<1	<2	<50	<50	<3	<3	6	5	<5
28...	100	110	<1	<.5	51	<50	4	4	12	9	9
AUG 08...	100	94	<1	<.5	70	67	<3	<3	<5	<5	<5
SEP 13...	100	55	<1	<.5	51	<50	<3	4	10	<5	<5

DATE	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
OCT 26...	--	5	--	2500	--	<50	--	620	--	<.1
DEC 14...	--	11	--	7600	--	<50	--	310	--	<.1
MAR 01...	<5	22	<5	1600	<50	<50	<50	160	78	<.1
APR 02...	<5	<5	<5	3200	<50	<50	<50	200	110	<.1
24...	<5	21	<5	22000	260	<100	<50	1500	17	<.1
JUN 04...	<5	<5	<5	2900	<50	<50	<50	180	60	<.1
28...	9	10	<5	2100	<50	<100	<50	470	350	<.1
AUG 08...	<5	<5	<5	1800	<50	<50	<50	1900	1500	<.1
SEP 13...	<5	9	<5	5200	<50	<50	<50	390	24	<.1

05587000 Macoupin Creek near Kane, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
26...	13	--	<3	--	150	--	<5	--	<50	--
DEC										
14...	19	--	<3	--	97	--	15	--	130	--
MAR										
01...	<5	<5	<3	<3	180	170	<5	<5	110	<100
APR										
02...	7	<5	<3	<3	170	170	7	<5	<50	<50
24...	23	<5	<3	<3	88	58	35	<5	<100	<50
JUN										
04...	<5	5	<3	<3	220	210	7	6	<50	<50
28...	9	10	4	6	180	180	8	8	<100	<100
AUG										
08...	7	7	<3	<3	190	190	<5	<5	<50	<50
SEP										
13...	14	<5	<3	<3	81	70	8	<5	<50	<50

05587060 ILLINOIS RIVER AT HARDIN, IL

LOCATION.--Lat 39°09'37", long 90°36'55", in NW¼NW¼ sec.26, T.10 S., R.2 W., Calhoun County, Hydrologic Unit 07130011, at bridge on State Highways 16 and 100 in Hardin, 1.6 mi downstream from Macoupin Creek and at mile 21.5.

DRAINAGE AREA.--28,690 mi².

PERIOD OF RECORD.--Water years 1973 to current year. Additional chemical data for water years 1959-77 are published in Water-Resources Investigations 78-23 and 79-24 as site D 01.

REMARKS.--Water-discharge records from Illinois River at Meredonia (station 05585500) were used to estimate mean daily discharges for this station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L) (00335)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)
OCT 06...	1000	17002	17002	7890	663	7.1	17.5	7.7	7.2	16	K20	--
DEC 07...	1200	17002	17002	31400	734	6.9	3.5	11	7.3	31	K100	--
FEB 22...	1000	17002	17002	69000	538	7.1	3.0	46	10.6	24	K100	200
MAR 27...	1100	17002	17002	80500	500	7.6	5.0	6.0	12.3	24	K200	210
APR 18...	1000	17002	17002	49800	662	7.5	11.0	7.3	9.4	18	K30	300
MAY 30...	1000	17002	17002	58700	555	7.3	17.0	6.8	6.6	21	K100	250
JUN 27...	1000	17002	17002	29500	681	7.3	26.0	3.4	--	31	K220	300
AUG 02...	1000	17002	17002	11400	--	7.8	26.0	7.0	5.3	21	K100	240
SEP 04...	1100	17002	17002	7500	668	7.8	25.0	27	6.8	18	K30	240

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 06...	58	--	24	--	49	--	4.5	--	46	8	3.1	<.100
DEC 07...	70	--	30	--	31	--	4.1	--	222	20	4.4	.330
FEB 22...	50	47	21	19	26	26	3.6	3.0	88	70	4.2	.490
MAR 27...	52	50	22	21	18	17	3.3	2.7	190	84	5.5	.140
APR 18...	72	71	31	30	18	18	2.1	2.0	68	7	6.1	<.100
MAY 30...	58	57	25	25	18	18	2.7	2.6	124	10	5.2	<.100
JUN 27...	78	70	33	30	30	29	4.2	3.2	213	186	5.2	<.100
AUG 02...	57	55	27	26	39	38	4.2	3.8	68	13	1.6	<.100
SEP 04...	55	53	26	25	42	39	4.4	4.0	23	18	1.3	<.100

K Results based on colony count outside the acceptable range (non-ideal colony count).

BEST COPY AVAILABLE

05587060 ILLINOIS RIVER AT HARDIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	AMMONIA UN-IONIZED (MG/L AS N) (00619)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
OCT 06...	<.001	--	--	--	--	56	--	<1	--	210	--	<3
DEC 07...	<.001	--	--	3200	--	81	--	<2	--	130	--	<3
FEB 22...	<.001	.340	.120	4200	120	90	49	<2	<2	65	72	4
MAR 27...	<.001	.130	.090	3800	120	94	50	<1	<.5	66	61	<3
APR 18...	<.001	.100	.030	400	<50	65	54	<1	<.5	78	79	<3
MAY 30...	<.001	.260	.100	1300	<50	95	65	<1	<.5	87	73	<3
JUN 27...	<.001	.390	.140	5600	<50	100	77	<1	<.5	130	120	6
AUG 02...	<.004	.240	.130	2000	<50	96	74	<2	<2	140	140	13
SEP 04...	<.004	.180	.100	880	<50	74	64	<1	<1	180	180	<3

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT 06...	--	<5	--	<5	--	<5	--	1200	--	<50	--	110
DEC 07...	--	11	--	5	--	10	--	4600	--	<50	--	190
FEB 22...	<3	10	<5	<5	<5	9	<5	5800	67	<50	<50	230
MAR 27...	<3	13	<5	<5	<5	5	<5	4800	<50	<50	<50	150
APR 18...	<3	<5	<5	<5	<5	<5	<5	740	<50	<50	<50	81
MAY 30...	<3	9	<5	<5	<5	<5	<5	1600	<50	<50	<50	150
JUN 27...	<3	22	<5	18	7	12	<5	6600	<50	120	<50	290
AUG 02...	<3	<5	<5	<5	<5	<5	<5	2200	<50	<50	<50	120
SEP 04...	<3	<5	<5	<5	<5	<5	<5	860	<50	<50	<50	120

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, TOTAL (UG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 06...	--	<.1	7	--	<3	--	240	--	<5	--	110	--
DEC 07...	--	<.1	16	--	<3	--	220	--	8	--	<100	--
FEB 22...	37	<.1	17	<5	<3	<3	140	130	7	<5	--	--
MAR 27...	14	<.1	11	<5	<3	<3	130	120	9	<5	<50	<50
APR 18...	<5	<.1	<5	<5	<3	<3	170	170	<5	<5	<50	<50
MAY 30...	<5	.4	<5	<5	<3	<3	150	150	<5	<5	<50	<50
JUN 27...	<5	<.1	22	<5	11	<3	230	220	23	5	<100	<50
AUG 02...	8	<.1	<5	<5	<3	<3	230	230	<5	<5	<100	<50
SEP 04...	<5	--	<5	<5	<3	<3	260	250	<5	<5	<50	<50

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are useable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in the first table. It is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		ILLINOIS RIVER BASIN					
		Hydrologic Unit 07120006					
05549000	Boone Creek near McHenry, IL	Lat 42°19'15", long 88°18'45", in NW¼SW¼ sec.4, T.44 N., R.8 E., McHenry County, on left bank at upstream side of bridge on Bull Valley Road, 2.5 mi southwest of McHenry, and at mile 4.8. Datum of gage is 769.56 ft.	15.5	1949-82**, 1983-84	02-14-84	3.21	128
		Hydrologic Unit 07130002					
05554000	North Fork Vermilion River near Charlotte, IL	Lat 40°50'08", long 88°17'58", in SE¼SE¼ sec.4, T.27 N., R.8 E., Livingston County, at Foreman highway bridge, 1.2 mi northwest of Charlotte, 5.5 mi north of Chatsworth. Datum of gage is 638.00 ft.	186	1943-62**, 1963-84	05-22-84	13.69	3,540
		Hydrologic Unit 07130001					
05557000	West Bureau Creek at Wyanet, IL	Lat 41°21'54", long 89°34'08", in NE corner of sec.21, T.16 N., R.8 E., Bureau County, on left bank at upstream side of bridge on U.S. Highways 6 and 34, 0.5 mi east of Wyanet. Datum of gage is 573.14 ft.	86.7	1937-66**, 1967-84	06-22-84	9.15	2,900
05557500	East Bureau Creek near Bureau, IL	Lat 41°20'06", long 89°22'53", in NW¼NE¼ sec.31, T.16 N., R.10 E., Bureau County, on left bank at downstream side of bridge, 0.5 mi downstream from Brus[illegible]eek, 2.5 mi upstream from mouth, and 3.5 mi north of Bureau. Datum of gage is 484.45 ft.	99.0	1937-66**, 1967-84	06-07-84	14.40	4,760
		Hydrologic Unit 07130003					
05563000	Kickapoo Creek near Kickapoo, IL	Lat 40°48'00", long 89°48'00", in SW¼SE¼ sec.34, T.10 N., R.6 E., Peoria County, at bridge on U.S. Highway 150, 0.8 mi upstream from mouth of the West Fork of Kickapoo Creek and 2.5 mi northwest of Kickapoo. Datum of gage is 514.85 ft.	119	1945-62**, 1963-84	03-20-84	14.48	14,600

** Continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		ILLINOIS RIVER BASIN--Continued					
		Hydrologic Unit 07130003--Continued					
05563500	Kickapoo Creek at Peoria, IL	Lat 40°40'52", long 89°39'19", in NE¼NW¼ sec.13, T.8 N., R.7 E., Peoria County, on left bank at upstream side of pier of bridge on State Highway 116, 0.5 mi west of Peoria, 1.5 mi downstream from Dry Run, and 4.0 mi upstream from mouth. Datum of gage is 448.37 ft.	297	1943-71**, 1972-84	03-20-84	-	<6,000
		Hydrologic Unit 07130004					
05567000	Panther Creek near El Paso, IL	Lat 40°46'05", long 89°04'30", in center of sec.26, T.27 N., R.1 E., Woodford County, at bridge on county road just below East Branch Panther Creek and 3.8 mi northwest of El Paso. Datum of gage is 658.86 ft.	93.9	1950-60**, 1961-84	05-20-84	10.30	3,570
05568000	Mackinaw River near Green Valley, IL	Lat 40°26'43", long 89°39'10", in SE¼NW¼ sec.15, T.23 N., R.5 W., Tazewell County, at bridge on State Highway 29, 3.0 mi north of Green Valley and 13 mi upstream from mouth. Datum of gage is 477.10 ft. Prior to Sept. 30, 1952, at datum 2.00 ft higher.	1,089	1922-56**, 1957-58, 1960-84	05-21-84	-	^{a}8,900
		Hydrologic Unit 07130007					
05575500	South Fork Sangamon River at Kincaid, IL	Lat 39°34'44", long 89°23'31", in SW¼NE¼ sec.14, T.13 N., R.3 W., Christian County, at bridge on State Highway 104, 1.0 mi southeast of Kincaid. Datum of gage is 538.65 ft.	562	1917-27**, 1929-30**, 1933**, 1945-61**, 1962-84	04-22-84	20.58	5,590
		Hydrologic Unit 07130008					
05576500	Sangamon River at Riverton, IL	Lat 39°50'34", long 89°32'52", in NE¼ sec.16, T.16 N., R.4 W., Sangamon County, at bridge on former U.S. Highway 36 at Riverton, 4.5 mi downstream from South Fork. Datum of gage is 508.38 ft.	2,618	1908-12**, 1915-27**, 1929-30**, 1932-56**, 1957-84	04-20-84	-	^{a}13,700
		Hydrologic Unit 07130009					
05580500	Kickapoo Creek near Lincoln, IL	Lat 40°11'30", long 89°21'40", in NE¼NW¼ sec.18, T.20 N., R.2 W., Logan County, on left bank at downstream side of highway bridge, 1,000 ft upstream from Illinois Terminal Railroad, 3.0 mi north of Lincoln, and 7.5 mi upstream from mouth. Datum of gage is 557.08 ft.	306	1945-71**, 1972-84	05-22-84	12.44	4,330
05581500	Sugar Creek near Hartsburg, IL	Lat 40°13'20", long 89°24'12", in SE¼SW¼ sec.35, T.21 N., R.3 W., Logan County, on right bank at downstream side of bridge on county road, 0.4 mi upstream from State Highway 121, 2.6 mi southwest of Hartsburg, 4.1 mi northwest of Lincoln, and 6.6 mi downstream from West Fork. Datum of gage is 548.70 ft.	333	1945-71**, 1972-84	05-22-84	12.47	10,800

** Continuous-record gaging station.
a Estimated.

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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		ILLINOIS RIVER BASIN--Continued					
		Hydrologic Unit 07130010					
05584400	Drowning Fork at Bushnell, IL	Lat 40°33'45", long 90°31'23", in NE¼SE¼ sec.29, T.7 N., R.1 W., McDonough County, on right bank at downstream side of bridge 200 ft above Burlington Northern RR. brdige, 1 mi northwest of Bushnell and at mile 5.5. Datum of gage is 615.02 ft.	26.3	1961-82**, 1983-84	05-20-84	6.88	126
		Hydrologic Unit 07130011					
05586000	North Fork Mauvaise Terre Creek near Jacksonville, IL	Lat 39°45'38", long 90°08'07", in SE¼NW¼ sec.8, T.15 N., R.9 W., Morgan County, on left bank at downstream side of county road bridge, 2.5 mi north of Arnold, 4.5 mi upstream from mouth, 6.0 mi east of Jacksonville, and at mile 6.2. Datum of gage is 579.27 ft.	29.1	1950-75**, 1976-84	04-21-84	9.54	1,440
05586500	Hurricane Creek near Roodhouse, IL	Lat 39°29'20", long 90°25'00", in NE¼ sec.15, T.12 N., R.12 W., Greene County, on left bank 150 ft downstream from bridge on State Highway 106, 2.0 mi west of Roodhouse, and at mile 12.5. Datum of gage is 597.16 ft.	2.30	1951-75**, 1976-84	04-21-84	8.47	247

** Continuous-record gaging station.

Measurements of streamflow at points other than gaging stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1984

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		ILLINOIS RIVER BASIN				
		Hydrologic Unit 07130002				
05555000	Vermilion River at Streator, IL	Lat 41°05'35", long 88°50'05", in SE¼ sec.2, T.30 N., R.3 E., Livingston County, at South Bloomington Street Bridge on State Highway 23, at Streator.	1,084	1914-30‡, 1960-62, 1965, 1968, 1970, 1972-74, 1976-78, 1980-81	02-15-84	6,840
		Hydrologic Unit 07130008				
05578000	Sangamon River at Petersburg, IL	Lat 40°00'37", long 89°50'42", in SW¼NW¼ sec.13, T.18 N., R.7 W., Menard county, at Petersburg.	3,063	1947-51‡, 1958-66, 1968-70, 1972-74, 1976-82	12-29-82 06-04-84	9,040 7,990

‡ Operated as a continuous-record gaging station.

BUREAU COUNTY

412220089280301. Local number, 16N-9E-16.8e.
LOCATION.--Lat 41°22'20", long 89°28'03", Hydrologic Unit 07130001, 326 First Street, Princeton.
Owner: Helen Croisant.
AQUIFER.--Glacial Drift.
WELL CHARACTERISTICS.--Dug unused water-table well, diameter 32 in., depth 29 ft, cribbed with brick.
DATUM.--Land-surface datum is 698 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of platform, 0.05 ft below land-surface datum, since Nov. 2, 1982.
PERIOD OF RECORD.--November 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.94 ft below land-surface datum, May 15, 1943; lowest, 23.64 ft below land-surface datum, Mar. 30, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	11.10	DEC 10	6.90	FEB 10	8.65	APR 10	6.18	JUN 10	6.24	AUG 10	10.40
26	10.24	22	6.50	20	6.40	20	6.60	20	7.46	20	11.12
NOV 10	10.30	JAN 10	7.80	MAR 10	7.38	MAY 10	6.40	JUL 10	7.95	SEP 10	11.78
20	8.40	20	8.38	20	6.14	20	7.18	20	8.87	20	12.02

DU PAGE COUNTY

414236087583301. Local number, 37N-11E-9HI.
LOCATION.--Lat 41°42'36", long 87°58'33", Hydrologic Unit 07120004, at Argonne National Laboratory.
Owner: Argonne National Laboratory.
AQUIFER.--Niagara Dolomite of Middle Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 199 ft, cased to 86 ft.
DATUM.--Land-surface datum is 705 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.40 ft above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--November 1948 to current year.
REVISED RECORDS.--WDR IL-79-2: 1978(M).
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 57.79 ft below land-surface datum, May 8, 1950; lowest, 91.59 ft below land-surface datum, Sept. 23, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	90.39	90.11	90.30	89.67	89.33	89.02	88.50	88.02	88.27	89.06	90.16	91.37
10	90.30	90.19	90.98	90.11	89.50	89.58	88.86	88.12	88.76	89.12	90.84	91.10
15	90.39	89.83	90.21	90.02	89.47	89.18	88.62	88.35	88.94	89.49	90.83	91.37
20	90.21	89.76	90.68	89.89	89.13	88.72	88.70	87.92	89.28	89.94	90.87	91.11
25	90.47	90.33	90.31	89.52	89.49	89.02	88.57	88.33	89.02	90.22	91.17	91.36
EOM	90.44	90.30	90.47	89.44	89.11	89.33	88.44	88.15	89.11	90.03	91.16	91.17

WTR YR 1984 HIGH 87.67 Apr. 30 LOW 91.54 Sept. 26

414217087592801. Local number 37N-11E-9KI.
LOCATION.--Lat 41°42'17", long 87°59'28", Hydrologic Unit 07120004, at Argonne National Laboratory.
Owner: Argonne National Laboratory.
AQUIFER.--Niagara Dolomite of Middle Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 140 ft, cased to 90.0 ft, open end.
DATUM.--Land-surface datum is 733 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.31 ft above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells. Water levels are presently below casing causing float to catch on objects. Casing diameter also affects recorder sensitivity.
PERIOD OF RECORD.--December 1948 to current year.
REVISED RECORDS.--WDR IL-79-2: 1978.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 88.97 ft below land-surface datum, May 27, 1951; lowest, 102.93 ft below land-surface datum, Nov. 26, 27, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	101.52	101.74	101.53	101.24	101.41	101.22	100.89	100.74	100.79	---	---	---
10	101.78	101.46	101.72	101.43	101.48	101.44	101.03	100.70	101.04	---	---	---
15	101.67	101.42	101.47	101.47	101.56	101.36	100.83	101.02	---	---	---	102.43
20	101.77	101.39	101.73	101.58	101.46	101.01	101.03	100.83	---	---	---	102.24
25	101.71	101.52	101.57	101.31	101.35	101.08	100.81	100.77	---	---	---	102.62
EOM	101.90	101.66	101.59	101.37	101.30	101.14	100.93	100.87	---	---	---	102.60

WTR YR 1984 HIGH 100.21 Apr. 29, 30 LOW 102.64 Sept. 26

INDEX

Page

Acre-foot, definition of 8
Addison Creek at Bellwood 61-64
Adenosine triphosphate, definition of 8
Algae, definition of 8
Algal growth potential, definition of 8
Algonquin, Fox River at 156-159
Antioch, Channel Lake near 144
Apple Creek near Eldred 365-366
Aquifer, definition of 8
Arensville, Indian Creek at 351-352
Artesian, definition of 8
Aux Sable Creek near Morris 128-130

Bacteria, definition of 8
Bartonville, Kickapoo Creek at 211-213
Bed material, definition of 8
Bellwood, Addison Creek at 61-64
Big Bureau Creek at Princeton 192-194
Big Creek, at St. David 247-248
  near Bryant 251-258
Biochemical oxygen demand, definition of 8
Blackberry Creek near Yorkville 170-173
Bloomington, Sugar Creek near 324
Boone Creek near McHenry 376
Bottom material, definition of 8
Bryant, Big Creek near 251-258
  Evelyn Branch near 249-250
  Slug Run near 259-261
Buffalo Creek near Wheeling 46
Bureau County, ground-water levels in 380
Bureau, East Bureau Creek near 376
Burtons Bridge, Fox River at 153-155
Bushnell, Drowning Fork at 378
Butterfield Creek at Flossmoor 87

Calumet Sag Channel at Sag Bridge 96-98
Cells/volume, definition of 8
Cfs-day, definition of 8
Chambersburg, McKee Creek at 354-355
Channel Lake, Fox River near 141-143
Channel Lake near Antioch 144
Charlotte, North Fork Vermilion River near 376
Chebanse, Iroquois River near 31-33
Chemical oxygen demand, definition of 9
Chicago Heights, Deer Creek near 86
Chicago River, North Branch, at Deerfield 70-73
  North Branch, at Niles 77-80
    West Fork of, at Northbrook 76
Chicago Sanitary and Ship Canal
      at Lockport 99-101
Coal City, Mazon River near 131-134
Colmar, La Moine River at 343-346
Congerville, Mackinaw River below 218-223
  Mackinaw River near 217
Contents, definition of 9
Control, definition of 9
Control structure, definition of 9
Cooperation 1
Cortland, Lake Fork near 315-317
Cubic feet per second per square mile,
      definition of 9
Cubic foot per second, definition of 9

Dahinda, Spoon River near 235-237
Dayton, Fox River at 177-180
Decatur, Sangamon River at Route 48 at 275-278
  Sangamon River at Lake Decatur Water
      Intake at 272-274
Deer Creek near Chicago Heights 86
Deerfield, North Branch Chicago River at 70-73
Definition of terms 8-12
Des Plaines, Des Plaines River near 47-50
  Weller Creek at 52
Des Plaines River, at Lockport 67-69
  at Riverside 65
  at Route 53 at Joliet 103-105
  at Russell 39-42
  near Des Plaines 47-50
  near Gurnee 43-45
  near Schiller Park 53-55
Discharge, definition of 9
Dissolved, definition of 9

Page

Downstream order and station number 12
Drainage area, definition of 9
Drainage basin, definition of 9
Drowning Fork at Bushnell 378
Du Page County, ground-water levels in 380
Du Page River, at Shorewood 124-127
  East Branch at Route 34 bridge at Lisle 118-120
  near Naperville 121-123
  West Branch, near Warrenville 114-117
    near West Chicago 110-113

East Bureau Creek near Bureau 376
East Peoria, Farm Creek at Camp Street
      Bridge at 208-210
  Fondulac Creek near 207
El Paso, Panther Creek near 377
Eldred, Apple Creek near 365-366
Elgin, Poplar Creek at 160-162
Evelyn Branch near Bryant 249-250

Farm Creek, at Camp Street Bridge at
      East Peoria 208-210
  at Farmdale 206
Farmdale, Farm Creek at 206
Ferson Creek near St. Charles 166
Fisher, Sangamon River at 264-267
Flag Creek near Willow Springs 66
Flat Branch near Taylorville 285-287
Flossmoor, Butterfield Creek at 87
Fondulac Creek near East Peoria 207
Fox Lake near Lake Villa 145
Fox Lake, Nippersink Lake at 146
Fox River, at Algonquin 156-159
  at Burtons Bridge 153-155
  at Dayton 177-180
  at Johnsburg 151
  at Montgomery 167-169
  at South Elgin 163-165
  at Wilmot, Wis 140
  near Channel Lake 141-143
  near McHenry 152
Frederick, Sugar Creek near 340-342

Gage height, definition of 9
Gaging station, definition of 9
Glenwood, Thorn Creek at 85
Green Valley, Mackinaw River below 224-226
  Mackinaw River near 377
Greenview, Salt Creek near 328-331
Ground-water level data, collection of 17
  explanation of 17
Ground-water level data 380
Gurnee, Des Plaines River near 43-45

Hardin, Illinois River at 374-375
Hardness, definition of 9
Hartsburg, Sugar Creek near 325-327,
377
Havana, Illinois River at Power
      Company at 262-263
Hennepin, Illinois River at 190-191
Henry, Illinois River at 197-200
Hickory Creek at Joliet 106-109
Highland Park, Skokie River near 75
Horse Creek at Pawnee 294
Hurricane Creek near Roodhouse 378
Hydrologic bench-mark station, definition of 13
Hydrologic conditions, graph of 7
  summary of 6
Hydrologic unit, definition of 9

Illinois River, at Hardin 374-375
  at Hennepin 190-191
  at Henry 197-200
  at Kingston Mines 227
  at Lacon 201-202
  at Marseilles 135-139
  at Meredosia 353
  at Pekin 214-216
  at Power Company at Havana 262-263
  at Valley City 358-364
  at Water Company at Peoria 203-205

Page

- Illinois River basin, crest-stage partial-record stations in 376-378
  - gaging-station records in 21-375
  - ground-water levels in 380
  - miscellaneous discharge measurements in 379
- Indian Creek (tributary to Illinois River) at Arensville 351-352
- Indian Creek (tributary to Spoon River) near Wyoming 231-234
- Introduction 1
- Iroquois, Iroquois River at 25-27
- Iroquois River, at Iroquois 25-27
  - near Chebanse 31-33

- Jacksonville, North Fork Mauvaise Terre Creek near 378
- Johnsburg, Fox River at 151
- Joliet, Des Plaines River at Route 53 at 103-105
  - Hickory Creek at 106-109

- Kane, Macoupin Creek near 370-373
- Kankakee River, at Momence 21-24
  - near Wilmington 34-38
- Kickapoo Creek (tributary to Illinois River), at Bartonville 211-213
  - at Peoria 377
  - near Kickapoo 376
- Kickapoo Creek (tributary to Salt Creek), at Waynesville 318-320
  - near Lincoln 321-323, 377
- Kickapoo, Kickapoo Creek near 376
- Kincaid, South Fork Sangamon River at 288-290, 377
- Kingston Mines, Illinois River at 227

- La Moine River, at Colmar 343-346
  - at Ripley 347-350
- La Salle, Little Vermilion River at 188-189
- Lacon, Illinois River at 201-202
- Lake Forest, Skokie River at 74
- Lake Fork near Cornland 315-317
- Lake Villa, Fox Lake near 145
- Lakes
  - Channel Lake near Antioch 144
  - Fox Lake near Lake Villa 145
  - Nippersink Lake at Fox Lake 146
  - Sangchris Lake near New City 291-293
- Lansing ditch near Lansing 88
- Lansing, Lansing ditch near 88
- Lemont, Long Run near 102
- Leonore, Vermilion River near 185-187
- Lincoln, Kickapoo Creek ner 321-323, 377
- Lisle, East Branch Du Page River at Route 34 bridge at 118-120
- Little Calumet River, at Munster, Ind. 81-84
  - at South Holland 93
- Little Vermilion River at La Salle 188-189
- Lockport, Chicago Sanitary and Ship Canal at 99-101
  - Des Plaines River at 67-69
- London Mills, Spoon River at 238-242
- Long Run near Lemont 102

- McDonald Creek near Mount Prospect 51
- McDowell, Vermilion River at 181-183
- McHenry, Boone Creek near 376
  - Fox River near 152
- McKee Creek at Chambersburg 354-355
- Mackinaw River, below Congerville 218-223
  - below Green Valley 224-226
  - near Congerville 217
  - near Green Valley 377
- Macoupin Creek, near Kane 370-373
  - near Macoupin 367-369
- Macoupin, Macoupin Creek near 367-369
- Map, location of active surface-water gaging stations 2-3
  - location of water-quality stations and observation wells 4-5
- Marseilles, Illinois River at 135-139
- Mauvaise Terre Creek, near Merritt 356-357
  - North Fork, near Jacksonville 378
- Mazon River near Coal City 131-134
- Meredosia, Illinois River at 353
- Merritt, Mauvaise Terre Creek at 356-357
- Micrograms per gram, definition of 9

Page

- Micrograms per kilogram, definition of 9
- Micrograms per liter, definition of 9
- Midlothian Creek at Oak Forest 94
- Milford, Sugar Creek at 28-30
- Milligrams per liter, definition of 9
- Momence, Kankakee River at 21-24
- Montgomery, Fox River at 167-169
- Monticello, Sangamon River at 268
  - Sangamon River at Allerton Park near 269-271
- Morris, Aux Sable Creek near 128-130
- Mount Prospect, McDonald Creek near 51
- Munster, Ind., Little Calumet River at 81-84

- Naperville, Du Page River near 121-123
- National Geodetic Vertical Datum of 1929, definition of 10
- National stream-quality accounting network, definition of 13
- New City, Sangchris Lake near 291-293
- Niantic, Sangamon River near 279-281
- Niles, North Branch Chicago River at 77-80
- Nippersink Creek near Spring Grove 147-150
- Nippersink Lake at Fox Lake 146
- Northbrook, West Fork of North Branch Chicago River at 76
- Numbering system for wells and miscellaneous sites 12

- Oak Forest, Midlothian Creek at 94
- Oakford, Sangamon River near 332-339

- Palos Park, Tinley Creek near 95
- Panther Creek near El Paso 377
- Partial-record station, definition of 10
- Particle size, definition of 10
- Particle-size classification, definition of 10
- Pawnee, Horse Creek at 294
- Pekin, Illinois River at 214-216
- Peoria, Illinois River at Water Company at 203-205
  - Kickapoo Creek at 377
- Percent composition, definition of 10
- Pesticide program, definition of 13
- Pesticides, definition of 10
- Petersburg, Sangamon River at 309-311, 379
- Picocurie, definition of 10
- Polychlorinated biphenyls, definition of 10
- Pontiac, Vermilion River at 184
- Poplar Creek at Elgin 160-162
- Princeton, Big Bureau Creek at 192-194
- Publications on techniques of water-resources investigations 18-19

- Radiochemical program, definition of 13
- Ripley, La Moine River at 347-350
- Riverside, Des Plaines River at 65
- Riverton, Sangamon River at 302-304, 377
- Roby, Sangamon River at 282-284
- Rochester, South Fork Sangamon River below 296-298
  - South Fork Sangamon River near 295
- Rolling Meadows, Salt Creek at 56
- Roodhouse, Hurricane Creek near 378
- Rowell, Salt Creek near 312-314
- Runoff in inches, definition of 10
- Russell, Des Plaines River at 39-42

- St. Charles, Ferson Creek near 166
- St. David, Big Creek at 247-248
- Sag Bridge, Calumet Sag Channel at 96-98
- Salt Creek (tributary to Des Plaines River), at Rolling Meadows 56
  - at Western Springs 57-60
- Salt Creek (tributary to Sangamon River), near Greenview 328-331
  - near Rowell 312-314
- Sangamon River, at Allerton Park near Monticello 269-271
  - at Fisher 264-267
  - at Lake Decatur Water Intake at Decatur 272-274
  - at Monticello 268
  - at Petersburg 309-311, 379
  - at Riverton 302-304, 377
  - at Roby 282-284
  - at Route 48 at Decatur 275-278

Page

Sangamon River--Continued
  near Niantic.... 279-281
  near Oakford.... 332-339
  South Fork, at Kincaid.... 288-290, 377
    below Rochester.... 296-298
    near Rochester.... 295
Sangchris Lake near New City.... 291-293
Schiller Park, Des Plaines River near.... 53-55
Sediment, definition of.... 10
Seville, Spoon River at.... 243-246
Sheridan, Somonauk Creek at.... 174-176
Shorewood, Du Page River at.... 124-127
Skokie River, at Lake Forest.... 74
  near Highland Park.... 75
Slug Run near Bryant.... 259-261
Solute, definition of.... 10
Somonauk Creek at Sheridan.... 174-176
South Elgin, Fox River at.... 163-165
South Holland, Little Calumet River at.... 93
Special networks and programs.... 13
Specific conductance, definition of.... 11
Spoon River, at London Mills.... 238-242
  at Seville.... 243-246
  near Dahinda.... 235-237
  near Wyoming.... 228-230
Spring Creek, at Burns Lane Bridge at Springfield.... 306-308
  at Springfield.... 305
Spring Grove, Nippersink Creek near.... 147-150
Springfield, Spring Creek at.... 305
  Spring Creek at Burns Lane Bridge at.... 306-308
  Sugar Creek near.... 299-301
Stage and water-discharge data, accuracy of.... 15
  collection and computation of.... 13-15
  explanation of.... 13-15
  other available.... 15
Stage-discharge relation, definition of.... 11
Streamflow, definition of.... 11
Streator, Vermilion River at.... 379
Sugar Creek (tributary to Illinois River) near Frederick.... 340-342
Sugar Creek (tributary to Iroquois River) at Milford.... 28-30
Sugar Creek (tributary to Salt Creek), near Bloomington.... 324
  near Hartsburg.... 325-327, 377
Sugar Creek (tributary to Sangamon River) near Springfield.... 299-301
Surface area, definition of.... 11

Page

Surficial bed material, definition of.... 11
Suspended, recoverable, definition of.... 11
Suspended, total, deginition of.... 11

Taylorville, Flat Branch near.... 285-287
Techniques of water-resources investigations, publications on.... 18-19
Thorn Creek, at Glenwood.... 85
  at Thornton.... 89-92
Thornton, Thorn Creek at.... 89-92
Time-weighted average, definition of.... 11
Tinley Creek near Palos Park.... 95
Tons per acre-foot, definition of.... 11
Tons per day, definition of.... 11
Total, definition of.... 11
Total, recoverable, definition of.... 11
Tritium network, definition of.... 13

Valley City, Illinois River at.... 358-364
Vermilion River, at McDowell.... 181-183
  at Pontiac.... 184
  at Streator.... 379
  near Leonore.... 185-187
  North Fork, near Charlotte.... 376

Warrenville, West Branch Du Page River near.... 114-117
Water-quality data, collection and examination of.... 16
  explanation of.... 16-17
  sediment.... 17
  water analysis.... 16
  water temperature.... 16
Waynesville, Kickapoo Creek at.... 318-320
WDR, definition of.... 12
Weighted average, definition of.... 12
Weller Creek at Des Plaines.... 52
West Bureau Creek at Wyanet.... 195-196, 376
West Chicago, West Branch Du Page River near.... 110-113
Western Springs, Salt Creek at.... 57-60
Wheeling, Buffalo Creek near.... 46
Willow Springs, Flag Creek near.... 66
Wilmington, Kankakee River near.... 34-38
Wilmot, Wis., Fox River at.... 140
WSP, definition of.... 12
Wyanet, West Bureau Creek at.... 195-196, 376
Wyoming, Indian Creek near.... 231-234
  Spoon River near.... 228-230

Yorkville, Blackberry Creek near.... 170-173

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons